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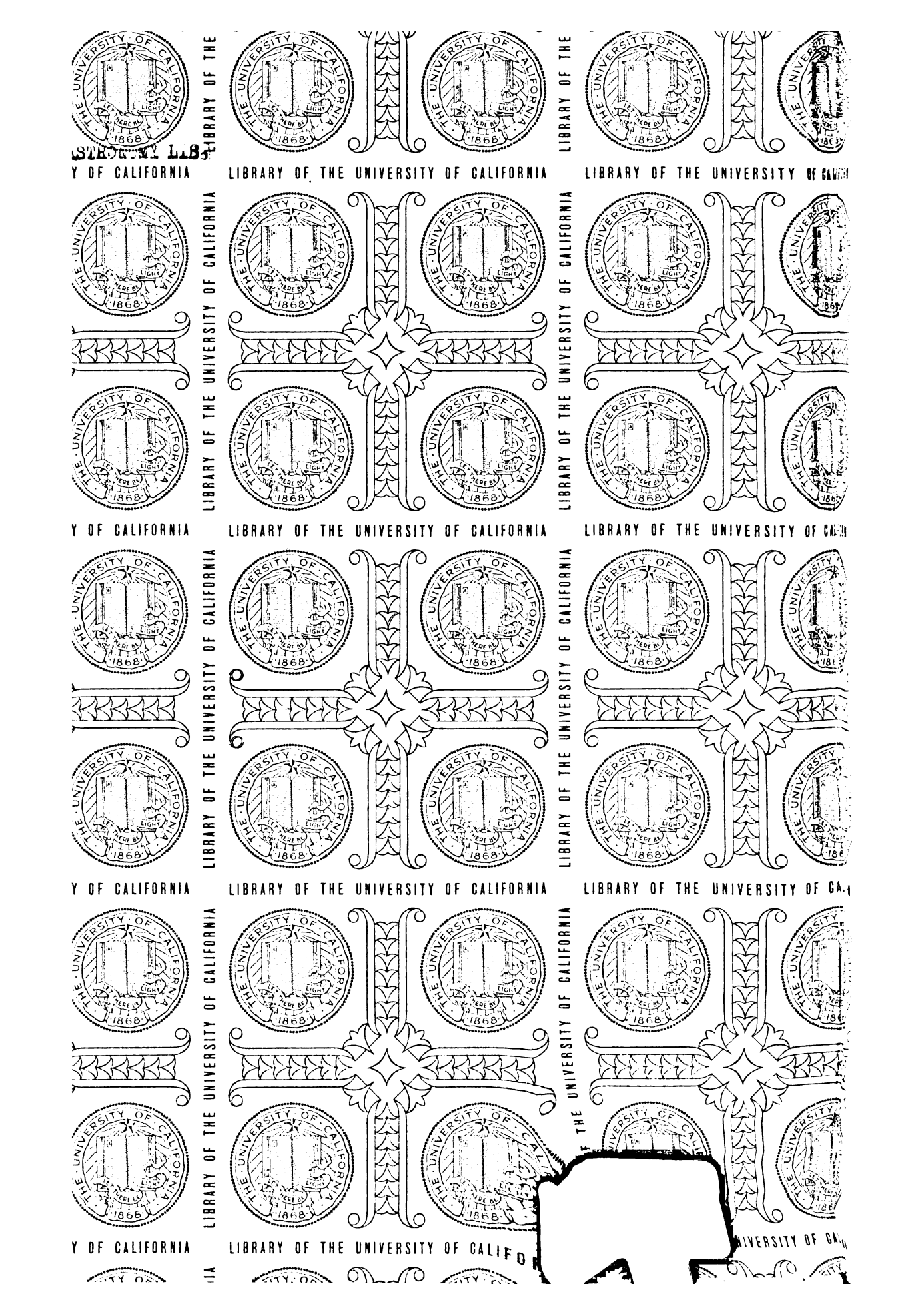
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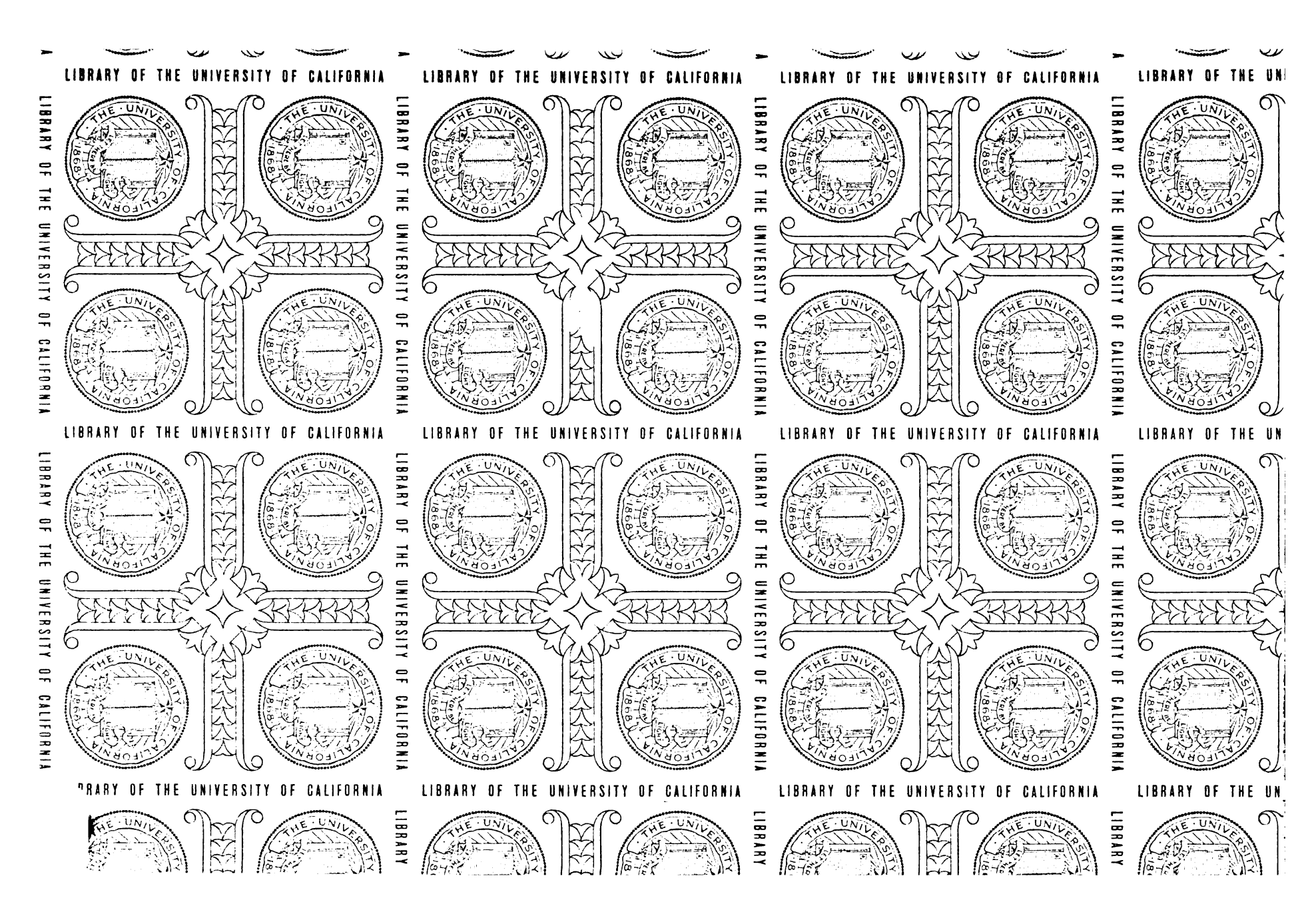
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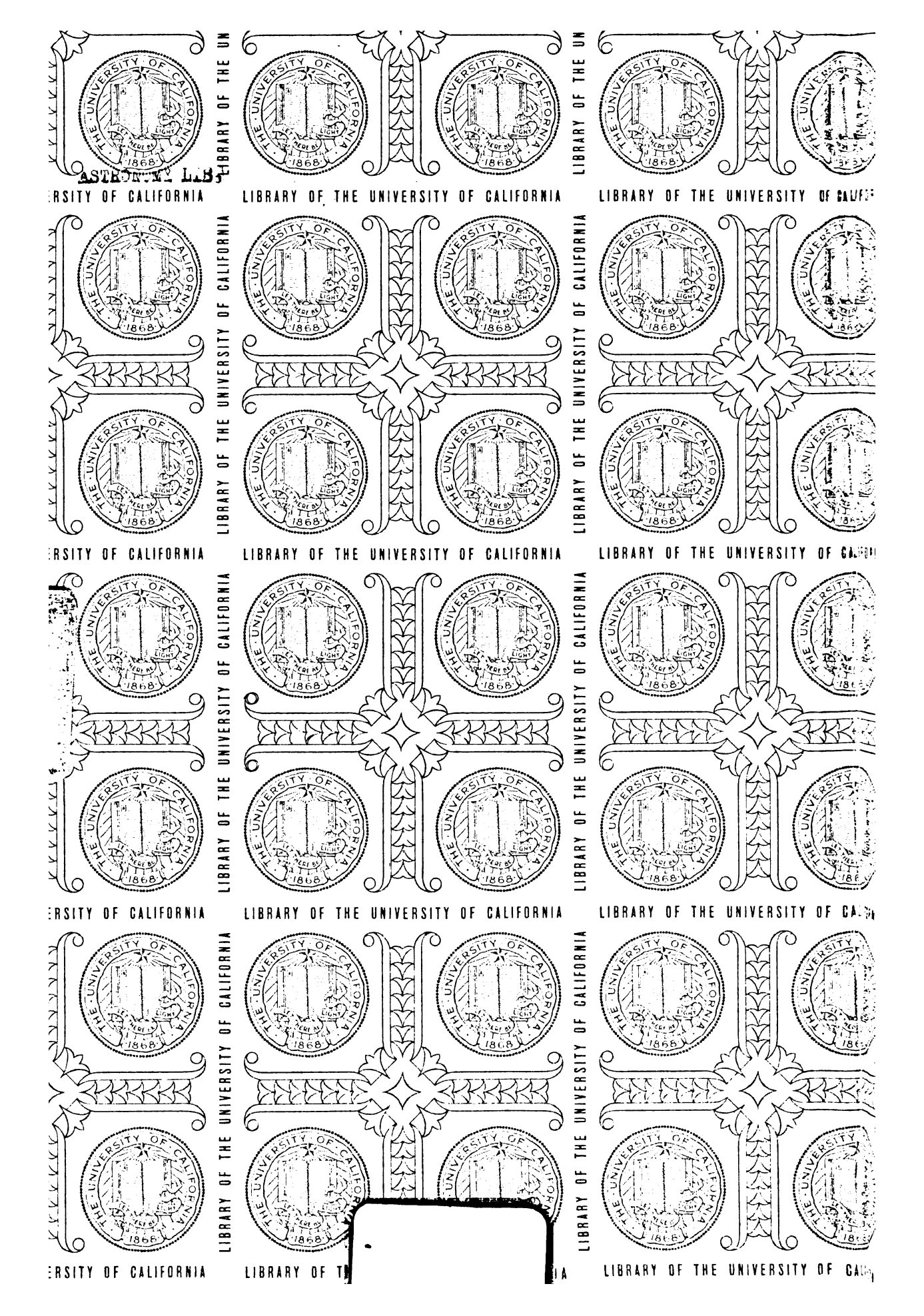
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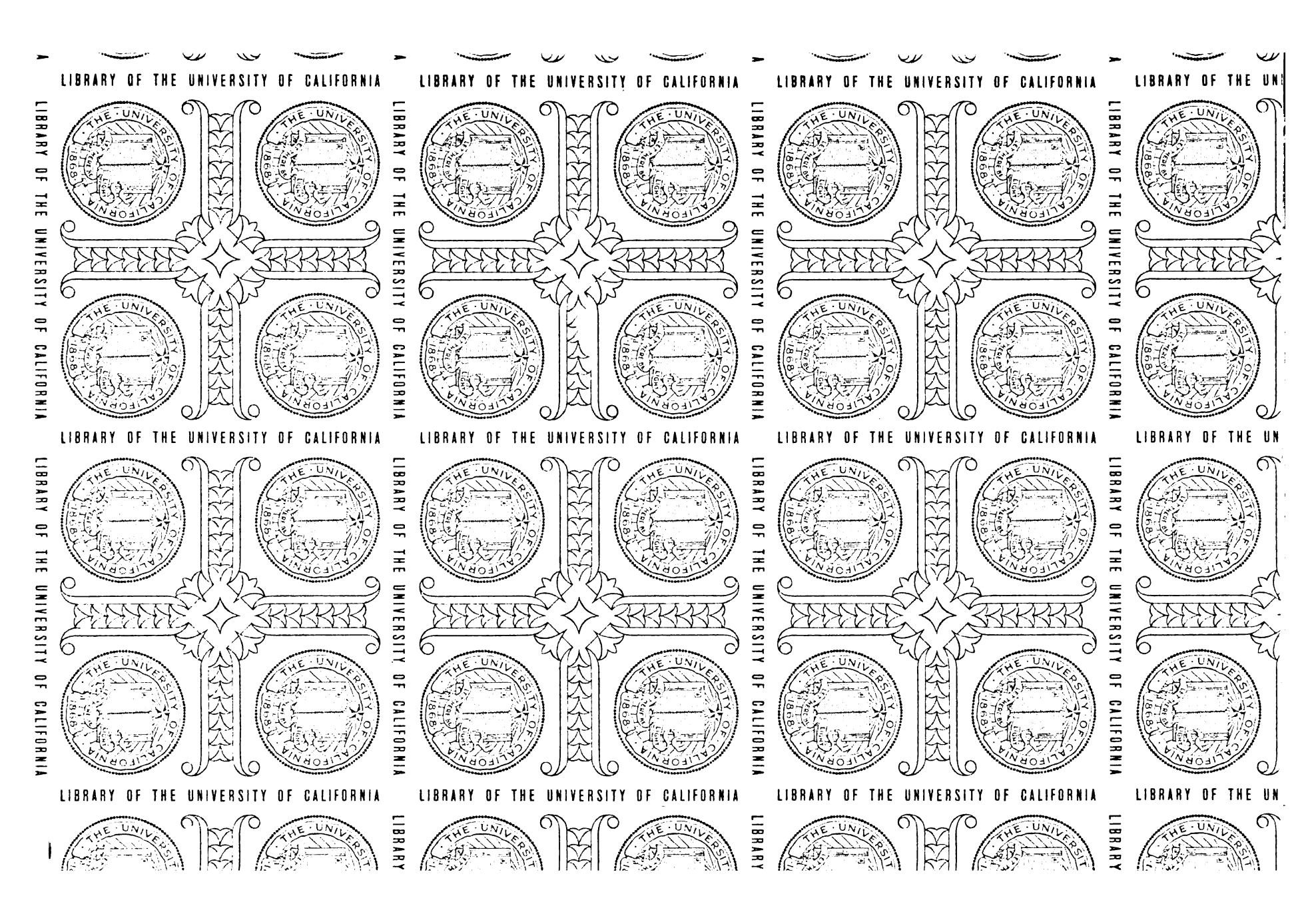
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Inhalt:

R. Schorr. Tafel der Reduktions-Konstanten zur Berechnung scheinbarer Sternörter für die Jahre 1830 bis 1860.

Hamburg 1907.

Kommissionsverlag von Lucas Gräfe & Sillem.

Die nachstehende Zusammenstellung der BESSEL'schen Reduktionskonstanten zur Berechnung scheinbarer Sternörter für den Zeitraum von 1830 bis 1860 ist veranlaßt worden durch die Neureduktion der von CARL RÜMKER in den Jahren 1836 bis 1856 am Meridiankreis der Hamburger Sternwarte ausgeführten Fixsternbeobachtungen. Da diese Beobachtungen nicht zonenweise angestellt sind, sondern an den einzelnen Beobachtungsabenden sich häufig über den ganzen sichtbaren Meridian erstrecken, war es unzweckmäßig, der Berechnung der Reduktion auf den Jahresanfang die Pulkowaer Tafeln zugrunde zu legen, da dann für jeden Stern die 8 Sternkonstanten a b c d und a′ b′ c′ d′ hätten neu berechnet werden müssen. Ich entschloß mich deshalb, die Reduktion auf den Jahresanfang nach den Formeln

$$\Delta\alpha = f + g \sin(G + \alpha) \operatorname{tg}\delta + h \sin(H + \alpha) \sec\delta$$
$$\Delta\delta = g \cos(G + \alpha) + h \cos(H + \alpha) \sin\delta + i \cos\delta$$

auszuführen und die Reduktionsgrößen f, g, h, i, G und H neu zu berechnen, unter Zugrundelegung der von der Pariser Fundamentalstern-Konferenz im Mai 1896 festgesetzten Werte:[1])

Nutationskonstante = 9″21
Aberrationskonstante = 20″47

sowie der Präzessionsgrößen nach S. NEWCOMB.[2]) Um die neuen Tafeln zu ähnlichen Neureduktionen älterer Beobachtungen für einen größeren Zeitraum benutzen zu können, wurde die Berechnung auf die Jahre 1830 bis 1860 ausgedehnt, womit zugleich ein besserer Anschluß an die Ephemeriden des Berliner Jahrbuchs erzielt wird, welche vom Jahre 1861 ab die Nutationskonstante von PETERS und die Aberrationskonstante von W. STRUVE zugrunde legen.

Die Berechnung erfolgte unter Benutzung von BAUSCHINGER's[3]) Tafeln XXXIa bis XXXIe, in welche die von der wahren Sonnenlänge (⊙)

[1]) Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896.

[2]) Astronomical Papers prepared for the use of the American Ephemeris and Nautical Almanac. Vol. VIII part I. Washington 1898.

[3]) J. BAUSCHINGER, Tafeln zur theoretischen Astronomie. Leipzig 1901.

und von der Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (☊) abhängigen Glieder der Reduktionskonstanten unter Annahme der oben angegebenen neuen Fundamentalkonstanten nach den folgenden Formeln tabuliert sind:

Präzession und Nutation.

$$f = f_\odot + f_\Omega$$
$$g\cos G = (g\cos G)_\odot + (g\cos G)_\Omega$$
$$g\sin G = (g\sin G)_\odot + (g\sin G)_\Omega$$

		Epoche
$f_\odot =$	$+46''.0850\,t - 1''.1674 \sin 2\odot + 0''.1355 \sin(\odot + 81°57')$	1900
	$+46.1129 \quad -1.1676 \quad +0.1348 \quad 80\ 42)$	2000
$(g\cos G)_\odot =$	$+20''.0468\,t - 0''.5064 \sin 2\odot + 0''.0588 \sin(\odot + 81°57')$	1900
	$+20.0383 \quad -0.5062 \quad +0.0584 \quad 80\ 42)$	2000
$(g\sin G)_\odot =$	$-0''.5519 \cos 2\odot - 0''.0092 \cos(\odot + 281°13')$	1900
	$-0.5516 \quad -0.0092 \quad 282\ 56)$	2000
$f_\Omega =$	$-15''.8080 \sin\Omega + 0''.1900 \sin 2\Omega$	1900
	$-15.8256 \quad +0.1900$	2000
$(g\cos G)_\Omega =$	$-6''.8580 \sin\Omega + 0''.0820 \sin 2\Omega$	1900
	$-6.8610 \quad +0.0820$	2000
$(g\sin G)_\Omega =$	$-9''.2100 \cos\Omega + 0''.0895 \cos 2\Omega$	1900
	$-9.2109 \quad +0.0894$	2000

Aberration.

			Epoche
$h\cos H =$	$-20''.47 \sin\odot$	$h\sin H = -18''.7790 \cos\odot$	1900
	-20.47	-18.7809	2000

		Epoche
$i =$	$-8''.1468 \cos\odot$	1900
	-8.1425	2000

Hierin bedeutet t die seit dem Beginn des annus fictus verflossene Zeit, ausgedrückt in Bruchteilen des Jahres. Die von der Mondlänge abhängigen kurzperiodischen Glieder sind in den vorstehenden Formeln nicht enthalten und daher auch in den nachfolgenden Tafeln nicht berücksichtigt.

Die Berechnung der Reduktionskonstanten erfolgte für 12^h M. Z. Berlin, und zwar wurden die Sonnenglieder in Intervallen von 4 Tagen, die Mondknotenglieder von 32 zu 32 Tagen berechnet und dann von Tag zu Tag interpoliert. Durch durchgreifende Kontrollen wurde die Richtigkeit der Rechnung sichergestellt.

Die Anordnung der nachfolgenden Tafeln unterscheidet sich von der sonst in den astronomischen Jahrbüchern üblichen nur dadurch, daß zur Erleichterung der numerischen Rechnung die Größen G, H und f in Stunden und Minuten bezw. in Zeitsekunden angegeben und außerdem noch die

bei Benutzung der außerordentlich praktischen, aber anscheinend nur wenig gebrauchten FINLAY'schen Hülfstafeln[1]) erforderlichen Reduktionsgrößen

$$x = \frac{g}{20''.0521} - 1 \qquad y = \frac{h}{18''.5000} - 1$$

aufgenommen sind. Die Berechnung der Reduktion auf den scheinbaren Ort mit Hülfe der FINLAY'schen Tafeln ist nach den hier bereits ausgeführten 52 000 Rechnungen für die RÜMKER'schen Beobachtungen so außerordentlich bequem, daß es sehr erwünscht wäre, wenn zur Erleichterung des Gebrauchs dieser Tafeln die astronomischen Jahrbücher und Ephemeriden in Zukunft auch die FINLAY'schen Hülfsgrößen x und y in die Zusammenstellung der Reduktionskonstanten aufnehmen würden.

Zur Berechnung der Übertragung von Gestirnsörtern auf andere Epochen ist eine Zusammenstellung der Präzessionsgrößen und der mittleren Schiefe der Ekliptik nach S. NEWCOMB für die Jahre 1800 bis 1900 beigefügt worden.

An der Berechnung und Herstellung der nachstehenden Tafeln haben außer dem Unterzeichneten und Herrn Dr. SCHWASSMANN die Herren Dr. GRAFF, MESSOW, BIRKENFELD, KÄGBEIN und BORNSTEIN, an den mehrfach gelesenen Korrekturen auch Herr Dr. DOLBERG teilgenommen.

Hamburg 1907 April. R. SCHORR.

[1]) W. H. FINLAY, Star-Correction Tables. Appendix to Cape Meridian Observations 1890.

Präzession der Aequinoktien und mittlere Schiefe der Ekliptik.

Nach S. Newcomb.

Trop. Jahr	p	log π	Π	m″	m^s	n″	log n″	log n^s	ε	Trop. Jahr
1800	50″.2341	9.67371	173° 2′.29	46″.0571	3ˢ.07048	20″.0554	1.302231	0.126140	23° 27′ 55″.10	1800
1810	2363	67365	173 7.77	0599	07066	0545	302213	126122	27 50.42	1810
1820	2386	67359	173 13.25	0627	07085	0537	302194	126103	27 45.73	1820
1830	2408	67352	173 18.73	0655	07103	0528	302176	126085	27 41.05	1830
1840	2431	67346	173 24.20	0683	07122	0520	302157	126066	27 36.36	1840
1850	2453	67340	173 29.68	0711	07141	0511	302139	126048	27 31.68	1850
1860	2475	67334	173 35.16	0739	07159	0502	302120	126029	27 27.00	1860
1870	2497	67328	173 40.63	0767	07178	0494	302102	126011	27 22.31	1870
1880	2519	67321	173 46.11	0794	07196	0485	302083	125992	27 17.63	1880
1890	2542	67315	173 51.58	0822	07215	0477	302065	125974	27 12.94	1890
1900	2564	67309	173 57.06	0850	07234	0468	302046	125955	27 8.26	1900

p = allgemeine Präzession in Länge für ein tropisches Jahr.

π = einjährige Änderung der Neigung der Ekliptik gegen die Ekliptik 1850.0.

Π = Länge des aufsteigenden Knotens der Ekliptik auf der Ekliptik 1850.0, gezählt vom Aequinoktium des jeweiligen Datums.

m = jährliche Präzession in Rektaszension.

n = jährliche Präzession in Deklination.

ε = mittlere Schiefe der Ekliptik.

Tafel der Reduktions-Konstanten
zur Berechnung scheinbarer Sternörter

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	$-0^s.092$	−0.5130	+0.1031	9.″77	$6^h14^m.1$	1.3098	$23^h19^m.1$	−1.″57
	2	.082	.5136	.1025	9.75	6 12.6	.3096	23 15.3	1.71
	3	.072	.5142	.1019	9.74	6 11.1	.3093	23 11.5	1.85
	4	.062	.5149	.1012	9.73	6 9.5	.3090	23 7.8	2.00
	5	.052	.5156	.1004	9.71	6 8.0	.3087	23 4.0	2.14
	6	.042	.5163	.0996	9.70	6 6.5	.3084	23 0.2	2.28
	7	.032	.5170	.0988	9.69	6 5.0	.3081	22 56.4	2.41
	8	.022	.5177	.0979	9.67	6 3.5	.3077	22 52.6	2.55
	9	.013	.5184	.0969	9.66	6 2.0	.3073	22 48.8	2.69
	10	−0.003	.5191	.0959	9.64	6 0.5	.3069	22 45.0	2.83
	11	+0.007	−0.5198	+0.0948	9.63	5 59.0	1.3065	22 41.2	−2.96
	12	.016	.5205	.0937	9.62	5 57.5	.3061	22 37.4	3.10
	13	.026	.5212	.0926	9.60	5 56.0	.3056	22 33.5	3.23
	14	.035	.5219	.0914	9.59	5 54.5	.3052	22 29.7	3.36
	15	.044	.5227	.0902	9.57	5 53.0	.3047	22 25.9	3.49
	16	.054	.5234	.0890	9.56	5 51.6	.3042	22 22.0	3.62
	17	.063	.5242	.0877	9.54	5 50.1	.3037	22 18.2	3.75
	18	.072	.5249	.0863	9.53	5 48.7	.3031	22 14.3	3.88
	19	.081	.5257	.0850	9.51	5 47.2	.3026	22 10.4	4.01
	20	.090	.5264	.0836	9.50	5 45.8	.3021	22 6.5	4.13
	21	+0.099	−0.5271	+0.0822	9.48	5 44.3	1.3015	22 2.6	−4.26
	22	.108	.5278	.0808	9.47	5 42.9	.3009	21 58.7	4.38
	23	.116	.5286	.0794	9.45	5 41.5	.3003	21 54.8	4.50
	24	.125	.5293	.0779	9.44	5 40.1	.2997	21 50.9	4.62
	25	.134	.5301	.0764	9.42	5 38.7	.2991	21 46.9	4.74
	26	.142	.5308	.0749	9.41	5 37.3	.2985	21 43.0	4.86
	27	.150	.5316	.0734	9.39	5 36.0	.2979	21 39.0	4.97
	28	.158	.5323	.0718	9.38	5 34.6	.2973	21 35.1	5.09
	29	.167	.5331	.0702	9.36	5 33.3	.2966	21 31.1	5.20
	30	.175	.5338	.0686	9.35	5 31.9	.2960	21 27.1	5.31

1830

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 31	$+0^s.183$	−0.5345	+0.0670	9″.33	$5^h30^m.6$	1.2953	$21^h23^m.1$	−5″.42
Februar 1	.190	.5352	.0654	9.32	5 29.3	.2947	21 19.1	5.52
2	.198	.5359	.0638	9.31	5 28.0	.2940	21 15.1	5.63
3	.206	.5366	.0622	9.29	5 26.7	.2934	21 11.1	5.73
4	.213	.5372	.0606	9.28	5 25.4	.2927	21 7.0	5.83
5	.221	.5379	.0590	9.27	5 24.2	.2920	21 3.0	5.93
6	.228	.5385	.0573	9.25	5 22.9	.2914	20 58.9	6.03
7	.235	.5392	.0557	9.24	5 21.7	.2907	20 54.8	6.12
8	.242	.5398	.0541	9.23	5 20.4	.2901	20 50.7	6.22
9	.249	.5404	.0525	9.22	5 19.2	.2894	20 46.6	6.31
10	+0.256	−0.5410	+0.0509	9.20	5 18.0	1.2887	20 42.5	−6.40
11	.263	.5416	.0494	9.19	5 16.9	.2881	20 38.4	6.49
12	.270	.5422	.0478	9.18	5 15.7	.2874	20 34.3	6.58
13	.277	.5427	.0463	9.17	5 14.5	.2868	20 30.2	6.66
14	.283	.5432	.0448	9.16	5 13.4	.2862	20 26.0	6.74
15	.290	.5437	.0433	9.15	5 12.2	.2855	20 21.9	6.82
16	.296	.5442	.0418	9.14	5 11.1	.2849	20 17.7	6.90
17	.302	.5447	.0403	9.13	5 10.0	.2843	20 13.5	6.97
18	.309	.5452	.0388	9.12	5 8.9	.2837	20 9.3	7.05
19	.315	.5457	.0374	9.11	5 7.8	.2831	20 5.1	7.12
20	+0.321	−0.5461	+0.0360	9.10	5 6.7	1.2825	20 0.9	−7.19
21	.327	.5465	.0347	9.09	5 5.7	.2820	19 56.7	7.25
22	.333	.5469	.0334	9.09	5 4.6	.2814	19 52.5	7.32
23	.338	.5472	.0321	9.08	5 3.6	.2809	19 48.2	7.38
24	.344	.5475	.0308	9.07	5 2.6	.2803	19 44.0	7.44
25	.350	.5478	.0296	9.07	5 1.6	.2798	19 39.7	7.50
26	.355	.5481	.0284	9.06	5 0.6	.2793	19 35.5	7.55
27	.361	.5484	.0273	9.06	4 59.6	.2789	19 31.2	7.60
28	.366	.5486	.0262	9.05	4 58.6	.2784	19 26.9	7.65
März 1	.372	.5488	.0252	9.05	4 57.7	.2780	19 22.6	7.70
2	+0.377	−0.5490	+0.0242	9.04	4 56.7	1.2775	19 18.4	−7.75
3	.382	.5491	.0232	9.04	4 55.8	.2771	19 14.1	7.79
4	.387	.5492	.0223	9.04	4 54.9	.2767	19 9.8	7.83
5	.393	.5493	.0214	9.04	4 54.0	.2764	19 5.5	7.87
6	.398	.5494	.0206	9.04	4 53.1	.2760	19 1.2	7.90
7	.403	.5494	.0198	9.04	4 52.2	.2757	18 56.8	7.94
8	.408	.5494	.0191	9.04	4 51.3	.2754	18 52.5	7.97
9	.413	.5493	.0185	9.04	4 50.5	.2751	18 48.2	8.00
10	.418	.5492	.0179	9.04	4 49.6	.2749	18 43.9	8.02
11	.423	.5491	.0174	9.04	4 48.8	.2746	18 39.6	8.05
12	+0.428	−0.5490	+0.0169	9.04	4 48.0	1.2744	18 35.2	−8.07
13	.432	.5488	.0165	9.05	4 47.1	.2743	18 30.9	8.09
14	.437	.5486	.0161	9.05	4 46.3	.2741	18 26.6	8.10
15	.442	.5484	.0158	9.06	4 45.5	.2740	18 22.2	8.12
16	.447	.5481	.0155	9.06	4 44.7	.2738	18 17.9	8.13
17	.452	.5478	.0153	9.07	4 44.0	.2738	18 13.6	8.14
18	.456	.5475	.0151	9.07	4 43.2	.2737	18 9.2	8.14
19	.461	.5471	.0150	9.08	4 42.4	.2736	18 4.9	8.15
20	.466	.5467	.0150	9.09	4 41.7	.2736	18 0.6	8.15
21	.471	.5462	.0150	9.10	4 40.9	.2736	17 56.3	8.15

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	22	$+0^s.475$	−0.5457	+0.0151	9.″11	$4^h40^m.2$	1.2737	$17^h51^m.9$	−8.″14
	23	.480	.5452	.0152	9.12	4 39.4	.2737	17 47.6	8.14
	24	.485	.5447	.0154	9.13	4 38.7	.2738	17 43.3	8.13
	25	.490	.5441	.0156	9.14	4 38.0	.2739	17 39.0	8.12
	26	.495	.5435	.0159	9.15	4 37.3	.2740	17 34.7	8.11
	27	.499	.5428	.0163	9.17	4 36.5	.2742	17 30.4	8.09
	28	.504	.5421	.0167	9.18	4 35.8	.2744	17 26.1	8.07
	29	.509	.5414	.0172	9.20	4 35.1	.2746	17 21.8	8.05
	30	.514	.5406	.0177	9.21	4 34.4	.2748	17 17.5	8.03
	31	.519	.5398	.0183	9.23	4 33.7	.2750	17 13.3	8.01
April	1	+0.524	−0.5390	+0.0189	9.25	4 33.0	1.2753	17 9.0	−7.98
	2	.529	.5381	.0196	9.26	4 32.3	.2756	17 4.7	7.95
	3	.534	.5372	.0203	9.28	4 31.6	.2759	17 0.5	7.92
	4	.539	.5362	.0211	9.30	4 30.9	.2762	16 56.3	7.88
	5	.544	.5352	.0219	9.32	4 30.2	.2766	16 52.0	7.85
	6	.549	.5342	.0228	9.34	4 29.5	.2769	16 47.8	7.81
	7	.554	.5332	.0237	9.36	4 28.8	.2773	16 43.6	7.77
	8	.560	.5321	.0247	9.38	4 28.2	.2777	16 39.4	7.72
	9	.565	.5310	.0257	9.41	4 27.5	.2782	16 35.2	7.68
	10	.570	.5298	.0267	9.43	4 26.8	.2786	16 31.0	7.63
	11	+0.576	−0.5286	+0.0278	9.45	4 26.1	1.2791	16 26.8	−7.58
	12	.581	.5274	.0289	9.48	4 25.4	.2795	16 22.7	7.53
	13	.587	.5261	.0301	9.50	4 24.7	.2800	16 18.5	7.47
	14	.592	.5248	.0313	9.53	4 24.0	.2805	16 14.4	7.42
	15	.598	.5235	.0325	9.55	4 23.3	.2811	16 10.3	7.36
	16	.604	.5221	.0338	9.58	4 22.7	.2816	16 6.2	7.30
	17	.610	.5207	.0351	9.61	4 22.0	.2821	16 2.1	7.23
	18	.616	.5193	.0364	9.64	4 21.3	.2827	15 58.0	7.17
	19	.622	.5178	.0377	9.67	4 20.6	.2832	15 53.9	7.10
	20	.628	.5163	.0391	9.70	4 19.8	.2838	15 49.8	7.03
	21	+0.634	−0.5148	+0.0405	9.73	4 19.1	1.2844	15 45.8	−6.96
	22	.640	.5133	.0419	9.76	4 18.4	.2850	15 41.8	6.89
	23	.646	.5118	.0433	9.79	4 17.7	.2856	15 37.7	6.81
	24	.653	.5102	.0448	9.82	4 17.0	.2862	15 33.7	6.74
	25	.659	.5086	.0463	9.85	4 16.3	.2868	15 29.7	6.66
	26	.666	.5070	.0478	9.89	4 15.5	.2874	15 25.7	6.58
	27	.672	.5053	.0493	9.92	4 14.8	.2881	15 21.8	6.49
	28	.679	.5036	.0508	9.95	4 14.0	.2887	15 17.8	6.41
	29	.686	.5019	.0523	9.99	4 13.3	.2893	15 13.9	6.32
	30	.692	.5002	.0539	10.02	4 12.5	.2899	15 9.9	6.24
Mai	1	+0.699	−0.4985	+0.0554	10.06	4 11.8	1.2906	15 6.0	−6.15
	2	.707	.4967	.0569	10.09	4 11.0	.2912	15 2.1	6.06
	3	.714	.4949	.0584	10.13	4 10.2	.2918	14 58.2	5.96
	4	.721	.4931	.0600	10.16	4 9.5	.2925	14 54.4	5.87
	5	.728	.4913	.0615	10.20	4 8.7	.2931	14 50.5	5.77
	6	.735	.4895	.0630	10.24	4 7.9	.2937	14 46.7	5.67
	7	.743	.4876	.0645	10.28	4 7.1	.2944	14 42.8	5.57
	8	.750	.4857	.0661	10.31	4 6.3	.2950	14 39.0	5.47
	9	.758	.4838	.0676	10.35	4 5.5	.2956	14 35.2	5.37
	10	.766	.4818	.0692	10.39	4 4.7	.2962	14 31.4	5.27

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	11	$+0^s.774$	−0.4799	+0.0707	10″.43	$4^h\ 3^m.9$	1.2968	$14^h27^m.6$	−5″.16
	12	.782	.4779	.0722	10.47	4 3.1	.2974	14 23.8	5.05
	13	.790	.4760	.0737	10.51	4 2.3	.2980	14 20.1	4.95
	14	.798	.4740	.0752	10.55	4 1.4	.2986	14 16.3	4.84
	15	.806	.4720	.0766	10.59	4 0.6	.2992	14 12.6	4.72
	16	.814	.4700	.0780	10.63	3 59.8	.2998	14 8.8	4.61
	17	.822	.4680	.0794	10.67	3 58.9	.3003	14 5.1	4.50
	18	.831	.4660	.0807	10.71	3 58.0	.3009	14 1.4	4.39
	19	.839	.4640	.0821	10.75	3 57.2	.3014	13 57.7	4.27
	20	.848	.4619	.0834	10.79	3 56.3	.3020	13 54.1	4.15
	21	+0.856	−0.4599	+0.0847	10.83	3 55.4	1.3025	13 50.4	−4.03
	22	.865	.4579	.0860	10.87	3 54.5	.3030	13 46.7	3.91
	23	.874	.4559	.0873	10.91	3 53.7	.3035	13 43.1	3.79
	24	.883	.4538	.0885	10.95	3 52.8	.3040	13 39.4	3.67
	25	.892	.4518	.0897	10.99	3 51.9	.3045	13 35.8	3.55
	26	.901	.4497	.0908	11.03	3 51.0	.3049	13 32.2	3.43
	27	.910	.4477	.0919	11.08	3 50.1	.3054	13 28.6	3.30
	28	.919	.4456	.0930	11.12	3 49.2	.3058	13 24.9	3.18
	29	.928	.4436	.0941	11.16	3 48.3	.3062	13 21.3	3.05
	30	.937	.4415	.0951	11.20	3 47.4	.3066	13 17.7	2.93
	31	+0.946	−0.4394	+0.0961	11.24	3 46.5	1.3070	13 14.2	−2.80
Juni	1	.955	.4373	.0970	11.28	3 45.5	.3074	13 10.6	2.67
	2	.965	.4352	.0979	11.33	3 44.6	.3077	13 7.0	2.54
	3	.974	.4331	.0988	11.37	3 43.7	.3081	13 3.5	2.41
	4	.984	.4311	.0996	11.41	3 42.7	.3084	12 59.9	2.28
	5	0.993	.4290	.1004	11.45	3 41.8	.3087	12 56.3	2.15
	6	1.003	.4270	.1011	11.49	3 40.8	.3090	12 52.8	2.02
	7	.012	.4249	.1018	11.53	3 39.9	.3093	12 49.3	1.89
	8	.022	.4229	.1024	11.57	3 38.9	.3095	12 45.7	1.75
	9	.032	.4209	.1030	11.61	3 38.0	.3097	12 42.2	1.62
	10	+1.042	−0.4189	+0.1035	11.65	3 37.0	1.3100	12 38.7	−1.49
	11	.051	.4168	.1040	11.69	3 36.0	.3102	12 35.1	1.35
	12	.061	.4148	.1045	11.73	3 35.1	.3103	12 31.6	1.22
	13	.071	.4128	.1049	11.77	3 34.1	.3105	12 28.1	1.08
	14	.081	.4108	.1053	11.81	3 33.1	.3106	12 24.6	0.95
	15	.090	.4088	.1056	11.85	3 32.1	.3108	12 21.1	0.81
	16	.100	.4068	.1059	11.89	3 31.1	.3109	12 17.6	0.68
	17	.110	.4049	.1061	11.93	3 30.2	.3110	12 14.1	0.54
	18	.120	.4029	.1063	11.97	3 29.2	.3110	12 10.6	0.41
	19	.130	.4010	.1064	12.01	3 28.2	.3111	12 7.1	0.27
	20	+1.140	−0.3991	+0.1065	12.05	3 27.2	1.3111	12 3.6	−0.14
	21	.150	.3972	.1065	12.09	3 26.2	.3111	12 0.1	0.00
	22	.160	.3953	.1065	12.12	3 25.2	.3111	11 56.6	+0.13
	23	.169	.3934	.1064	12.16	3 24.2	.3111	11 53.1	0.27
	24	.179	.3915	.1063	12.20	3 23.3	.3110	11 49.6	0.40
	25	.189	.3897	.1061	12.24	3 22.3	.3110	11 46.1	0.54
	26	.199	.3878	.1059	12.27	3 21.3	.3109	11 42.6	0.67
	27	.209	.3860	.1056	12.31	3 20.3	.3108	11 39.1	0.81
	28	.219	.3842	.1053	12.35	3 19.3	.3106	11 35.6	0.94
	29	.229	.3824	.1049	12.38	3 18.3	.3105	11 32.1	1.08

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	30	+1.238	−0.3806	+0.1045	12.42	$3^h17^m.3$	1.3104	$11^h28^m.6$	+1.21
Juli	1	.248	.3789	.1041	12.45	3 16.3	.3102	11 25.0	1.35
	2	.258	.3771	.1036	12.49	3 15.3	.3100	11 21.5	1.48
	3	.268	.3754	.1031	12.52	3 14.4	.3098	11 18.0	1.61
	4	.277	.3737	.1025	12.56	3 13.4	.3095	11 14.5	1.75
	5	.287	.3720	.1018	12.59	3 12.4	.3093	11 11.0	1.88
	6	.297	.3703	.1011	12.63	3 11.4	.3090	11 7.4	2.01
	7	.306	.3686	.1004	12.66	3 10.4	.3087	11 3.9	2.14
	8	.316	.3669	.0996	12.69	3 9.5	.3084	11 0.4	2.27
	9	.325	.3653	.0988	12.73	3 8.5	.3081	10 56.8	2.40
	10	+1.335	−0.3637	+0.0980	12.76	3 7.5	1.3078	10 53.3	+2.53
	11	.344	.3621	.0971	12.79	3 6.6	.3074	10 49.7	2.66
	12	.353	.3605	.0962	12.82	3 5.6	.3070	10 46.1	2.79
	13	.363	.3590	.0952	12.85	3 4.6	.3067	10 42.6	2.91
	14	.372	.3574	.0942	12.89	3 3.7	.3063	10 39.0	3.04
	15	.381	.3559	.0932	12.92	3 2.7	.3059	10 35.4	3.17
	16	.390	.3544	.0921	12.95	3 1.8	.3054	10 31.8	3.29
	17	.399	.3529	.0910	12.98	3 0.8	.3050	10 28.2	3.41
	18	.408	.3514	.0898	13.00	2 59.9	.3045	10 24.6	3.54
	19	.417	.3500	.0886	13.03	2 59.0	.3041	10 21.0	3.66
	20	+1.426	−0.3486	+0.0874	13.06	2 58.0	1.3036	10 17.4	+3.78
	21	.435	.3472	.0862	13.09	2 57.1	.3031	10 13.8	3.90
	22	.443	.3458	.0849	13.12	2 56.2	.3026	10 10.1	4.02
	23	.452	.3444	.0836	13.15	2 55.3	.3021	10 6.5	4.14
	24	.460	.3430	.0823	13.17	2 54.4	.3015	10 2.8	4.25
	25	.469	.3417	.0809	13.20	2 53.5	.3010	9 59.1	4.37
	26	.477	.3404	.0796	13.23	2 52.6	.3004	9 55.5	4.48
	27	.486	.3391	.0782	13.25	2 51.7	.2999	9 51.8	4.60
	28	.494	.3378	.0768	13.28	2 50.8	.2993	9 48.1	4.71
	29	.502	.3365	.0754	13.30	2 49.9	.2987	9 44.4	4.82
	30	+1.510	−0.3352	+0.0740	13.33	2 49.1	1.2982	9 40.6	+4.93
	31	.518	.3339	.0725	13.36	2 48.2	.2976	9 36.9	5.03
August	1	.526	.3327	.0710	13.38	2 47.3	.2970	9 33.2	5.14
	2	.534	.3315	.0695	13.40	2 46.5	.2964	9 29.4	5.24
	3	.541	.3303	.0680	13.43	2 45.6	.2958	9 25.6	5.35
	4	.549	.3291	.0665	13.45	2 44.8	.2951	9 21.9	5.45
	5	.557	.3279	.0650	13.48	2 44.0	.2945	9 18.1	5.55
	6	.564	.3268	.0635	13.50	2 43.2	.2939	9 14.3	5.65
	7	.572	.3256	.0620	13.52	2 42.4	.2933	9 10.5	5.75
	8	.579	.3245	.0605	13.54	2 41.6	.2927	9 6.6	5.84
	9	+1.586	−0.3234	+0.0590	13.57	2 40.8	1.2920	9 2.8	+5.94
	10	.593	.3223	.0574	13.59	2 40.0	.2914	8 58.9	6.03
	11	.600	.3212	.0559	13.61	2 39.2	.2908	8 55.1	6.12
	12	.607	.3201	.0543	13.63	2 38.5	.2901	8 51.2	6.21
	13	.614	.3190	.0528	13.65	2 37.7	.2895	8 47.3	6.30
	14	.621	.3180	.0513	13.68	2 37.0	.2889	8 43.4	6.38
	15	.628	.3169	.0498	13.70	2 36.2	.2883	8 39.5	6.47
	16	.634	.3159	.0483	13.72	2 35.5	.2877	8 35.6	6.55
	17	.641	.3149	.0468	13.74	2 34.8	.2870	8 31.6	6.63
	18	.647	.3139	.0454	13.76	2 34.1	.2864	8 27.7	6.71

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	19	$+1^s.654$	−0.3129	+0.0439	13″.78	$2^h33^m.4$	1.2858	$8^h23^m.7$	+6″.79
	20	.660	.3119	.0425	13.80	2 32.7	.2852	8 19.7	6.86
	21	.666	.3109	.0411	13.82	2 32.0	.2846	8 15.7	6.94
	22	.673	.3099	.0397	13.84	2 31.4	.2841	8 11.7	7.01
	23	.679	.3089	.0383	13.86	2 30.7	.2835	8 7.7	7.08
	24	.685	.3079	.0369	13.88	2 30.1	.2829	8 3.7	7.14
	25	.691	.3069	.0356	13.90	2 29.5	.2824	7 59.7	7.21
	26	.696	.3059	.0343	13.92	2 28.9	.2818	7 55.6	7.27
	27	.702	.3049	.0331	13.94	2 28.2	.2813	7 51.5	7.33
	28	.708	.3039	.0319	13.96	2 27.6	.2808	7 47.5	7.39
	29	+1.714	−0.3029	+0.0307	13.98	2 27.1	1.2803	7 43.4	+7.45
	30	.719	.3020	.0295	14.00	2 26.5	.2798	7 39.3	7.50
	31	.725	.3010	.0284	14.02	2 25.9	.2793	7 35.2	7.55
Septbr.	1	.730	.3001	.0273	14.04	2 25.4	.2788	7 31.0	7.60
	2	.736	.2991	.0263	14.06	2 24.8	.2784	7 26.9	7.65
	3	.741	.2981	.0253	14.07	2 24.3	.2780	7 22.8	7.70
	4	.746	.2971	.0243	14.09	2 23.8	.2776	7 18.6	7.74
	5	.752	.2961	.0234	14.11	2 23.3	.2772	7 14.5	7.79
	6	.757	.2951	.0225	14.13	2 22.8	.2768	7 10.3	7.83
	7	.762	.2941	.0216	14.15	2 22.3	.2764	7 6.1	7.86
	8	+1.767	−0.2931	+0.0208	14.17	2 21.8	1.2761	7 1.9	+7.90
	9	.772	.2921	.0200	14.19	2 21.4	.2758	6 57.7	7.93
	10	.777	.2911	.0193	14.21	2 20.9	.2755	6 53.5	7.96
	11	.782	.2900	.0187	14.24	2 20.5	.2752	6 49.3	7.99
	12	.787	.2890	.0181	14.26	2 20.0	.2749	6 45.1	8.02
	13	.792	.2879	.0175	14.28	2 19.6	.2747	6 40.9	8.04
	14	.797	.2869	.0170	14.30	2 19.2	.2745	6 36.6	8.06
	15	.802	.2858	.0166	14.32	2 18.8	.2743	6 32.4	8.08
	16	.807	.2847	.0162	14.34	2 18.4	.2741	6 28.1	8.10
	17	.812	.2836	.0159	14.37	2 18.0	.2740	6 23.9	8.11
	18	+1.817	−0.2825	+0.0156	14.39	2 17.7	1.2739	6 19.6	+8.12
	19	.821	.2813	.0154	14.41	2 17.3	.2738	6 15.4	8.13
	20	.826	.2802	.0152	14.43	2 17.0	.2737	6 11.1	8.14
	21	.831	.2790	.0151	14.46	2 16.6	.2737	6 6.8	8.15
	22	.836	.2778	.0150	14.48	2 16.3	.2736	6 2.6	8.15
	23	.841	.2766	.0150	14.51	2 16.0	.2736	5 58.3	8.15
	24	.845	.2754	.0150	14.53	2 15.7	.2737	5 54.0	8.15
	25	.850	.2741	.0151	14.56	2 15.4	.2737	5 49.7	8.14
	26	.855	.2729	.0153	14.58	2 15.1	.2738	5 45.5	8.14
	27	.860	.2716	.0155	14.61	2 14.8	.2739	5 41.2	8.13
	28	+1.865	−0.2703	+0.0158	14.63	2 14.5	1.2740	5 36.9	+8.11
	29	.870	.2689	.0161	14.66	2 14.2	.2741	5 32.6	8.10
	30	.874	.2675	.0165	14.69	2 14.0	.2743	5 28.3	8.08
Oktbr.	1	.879	.2661	.0170	14.72	2 13.7	.2745	5 24.1	8.06
	2	.884	.2647	.0175	14.74	2 13.5	.2747	5 19.8	8.04
	3	.889	.2632	.0180	14.77	2 13.3	.2749	5 15.5	8.02
	4	.894	.2618	.0186	14.80	2 13.0	.2752	5 11.2	7.99
	5	.899	.2603	.0192	14.83	2 12.8	.2755	5 7.0	7.96
	6	.904	.2588	.0199	14.86	2 12.6	.2758	5 2.7	7.93
	7	.909	.2572	.0207	14.89	2 12.4	.2761	4 58.4	7.90

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	8	+1.915	−0.2556	+0.0215	14.″93	$2^h12^m.2$	1.2764	$4^h54^m.2$	+7.″87
	9	.920	.2540	.0224	14.96	2 12.0	.2768	4 49.9	7.83
	10	.925	.2524	.0233	14.99	2 11.8	.2772	4 45.7	7.79
	11	.930	.2507	.0243	15.02	2 11.6	.2776	4 41.4	7.74
	12	.936	.2490	.0253	15.06	2 11.4	.2780	4 37.2	7.70
	13	.941	.2473	.0263	15.09	2 11.2	.2784	4 33.0	7.65
	14	.947	.2455	.0274	15.13	2 11.1	.2789	4 28.7	7.60
	15	.952	.2437	.0285	15.16	2 10.9	.2794	4 24.5	7.55
	16	.958	.2419	.0297	15.20	2 10.7	.2799	4 20.3	7.50
	17	.964	.2401	.0309	15.24	2 10.6	.2804	4 16.1	7.44
	18	+1.970	−0.2382	+0.0321	15.28	2 10.4	1.2809	4 11.9	+7.38
	19	.975	.2363	.0334	15.31	2 10.3	.2814	4 7.7	7.32
	20	.981	.2343	.0347	15.35	2 10.1	.2820	4 3.5	7.26
	21	.987	2323	.0360	15.39	2 9.9	.2825	3 59.3	7.19
	22	.993	.2303	.0373	15.43	2 9.8	.2831	3 55.2	7.12
	23	1.999	.2282	.0387	15.48	2 9.6	.2837	3 51.0	7.05
	24	2.005	.2261	.0401	15.52	2 9.5	.2843	3 46.9	6.98
	25	.011	.2240	.0416	15.56	2 9.3	.2849	3 42.7	6.91
	26	.018	.2219	.0431	15.60	2 9.2	.2855	3 38.6	6.83
	27	.025	.2197	.0446	15.65	2 9.0	.2861	3 34.5	6.75
	28	+2.032	−0.2175	+0.0461	15.69	2 8.9	1.2867	3 30.4	+6.67
	29	.038	.2152	.0476	15.74	2 8.7	.2874	3 26.3	6.59
	30	.045	.2129	.0491	15.78	2 8.5	.2880	3 22.2	6.50
	31	.052	.2106	.0507	15.83	2 8.4	.2887	3 18.1	6.42
Novbr.	1	.059	.2083	.0523	15.88	2 8.2	.2893	3 14.0	6.33
	2	.066	.2059	.0539	15.92	2 8.1	.2900	3 9.9	6.24
	3	.073	.2035	.0555	15.97	2 7.9	.2906	3 5.9	6.14
	4	.080	.2011	.0571	16.02	2 7.7	.2913	3 1.9	6.05
	5	.088	.1987	.0587	16.07	2 7.5	.2919	2 57.8	5.95
	6	.095	.1962	.0603	16.12	2 7.4	.2926	2 53.8	5.85
	7	+2.103	−0.1937	+0.0619	16.17	2 7.2	1.2932	2 49.8	+5.75
	8	.110	.1912	.0635	16.22	2 7.0	.2939	2 45.8	5.65
	9	.118	.1886	.0651	16.27	2 6.8	.2945	2 41.8	5.55
	10	.126	.1860	.0667	16.32	2 6.6	.2952	2 37.8	5.44
	11	.134	.1834	.0683	16.37	2 6.4	.2958	2 33.9	5.33
	12	.142	.1808	.0698	16.43	2 6.2	.2965	2 29.9	5.22
	13	.150	.1781	.0714	16.48	2 6.0	.2971	2 25.9	5.11
	14	.158	.1754	.0729	16.53	2 5.8	.2977	2 22.0	4.00
	15	.167	.1727	.0744	16.59	2 5.6	.2983	2 18.1	4.89
	16	.175	.1700	.0759	16.64	2 5.4	.2990	2 14.2	4.77
	17	+2.184	−0.1672	+0.0774	16.70	2 5.2	1.2996	2 10.2	+4.66
	18	.192	.1644	.0789	16.75	2 5.0	.3002	2 6.3	4.54
	19	.201	.1616	.0804	16.81	2 4.7	.3007	2 2.4	4.42
	20	.210	.1588	.0818	16.87	2 4.5	.3013	1 58.6	4.30
	21	.219	.1560	.0832	16.92	2 4.2	.3019	1 54.7	4.17
	22	.228	.1531	.0846	16.98	2 4.0	.3024	1 50.8	4.05
	23	.237	.1503	.0860	17.04	2 3.7	.3030	1 47.0	3.92
	24	.246	.1474	.0873	17.10	2 3.5	.3035	1 43.1	3.80
	25	.255	.1445	.0886	17.15	2 3.2	.3040	1 39.3	3.67
	26	.264	.1416	.0898	17.21	2 2.9	.3045	1 35.4	3.54

1830

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	27	$+2^s.274$	−0.1387	+0.0910	17″.27	$2^h\ 2^m.6$	1.3050	$1^h31^m.6$	+3″.41
	28	.283	.1357	.0922	17.33	2 2.3	.3055	1 27.8	3.28
	29	.293	.1328	.0933	17.39	2 2.0	.3059	1 24.0	3.14
	30	.302	.1298	.0944	17.45	2 1.7	.3064	1 20.2	3.01
Dezbr.	1	.312	.1269	.0955	17.51	2 1.4	.3068	1 16.4	2.88
	2	.322	.1239	.0965	17.57	2 1.1	.3072	1 12.6	2.74
	3	.332	.1210	.0975	17.63	2 0.8	.3076	1 8.8	2.60
	4	.342	.1180	.0984	17.69	2 0.4	.3079	1 5.0	2.47
	5	.352	.1150	.0993	17.75	2 0.1	.3083	1 1.2	2.33
	6	.362	.1120	.1001	17.81	1 59.7	.3086	0 57.4	2.19
	7	+2.372	−0.1090	+0.1009	17.87	1 59.4	1.3089	0 53.7	+2.05
	8	.382	.1060	.1017	17.93	1 59.0	.3092	0 49.9	1.91
	9	.392	.1030	.1024	17.99	1 58.7	.3095	0 46.1	1.77
	10	.402	.1001	.1030	18.04	1 58.3	.3097	0 42.4	1.63
	11	.412	.0971	.1036	18.10	1 57.9	.3100	0 38.6	1.49
	12	.422	.0941	.1041	18.16	1 57.5	.3102	0 34.9	1.34
	13	.433	.0911	.1046	18.22	1 57.2	.3104	0 31.1	1.20
	14	.443	.0882	.1050	18.28	1 56.8	.3105	0 27.4	1.06
	15	.453	.0852	.1054	18.34	1 56.4	.3107	0 23.6	0.91
	16	.464	.0823	.1057	18.40	1 55.9	.3108	0 19.9	0.77
	17	+2.474	−0.0793	+0.1060	18.46	1 55.5	1.3109	0 16.2	+0.63
	18	.485	.0764	.1062	18.52	1 55.1	.3110	0 12.4	0.48
	19	.495	.0734	.1064	18.58	1 54.7	.3110	0 8.7	0.34
	20	.506	.0705	.1065	18.64	1 54.3	.3111	0 4.9	0.19
	21	.516	.0676	.1065	18.70	1 53.8	.3111	0 1.2	+0.05
	22	.526	.0647	.1065	18.75	1 53.4	.3111	23 57.5	−0.10
	23	.537	.0618	.1064	18.81	1 53.0	.3111	23 53.7	0.24
	24	.547	.0590	.1063	18.87	1 52.5	.3110	23 50.0	0.39
	25	.558	.0561	.1061	18.93	1 52.1	.3110	23 46.2	0.53
	26	.568	.0533	.1059	18.98	1 51.6	.3109	23 42.5	0.68
	27	+2.579	−0.0505	+0.1056	19.04	1 51.1	1.3108	23 38.8	−0.82
	28	.589	.0477	.1053	19.09	1 50.7	.3106	23 35.0	0.96
	29	.599	.0449	.1049	19.15	1 50.2	.3105	23 31.3	1.11
	30	.610	.0421	.1045	19.21	1 49.7	.3103	23 27.5	1.25
	31	.620	.0393	.1041	19.26	1 49.2	.3101	23 23.7	1.40

1831

Januar	1	$-0^s.441$	−0.5370	+0.1034	9″.28	$7^h12^m.0$	1.3099	$23^h20^m.0$	−1″.54
	2	.431	.5386	.1028	9.25	7 10.5	.3097	23 16.2	1.68
	3	.420	.5402	.1021	9.22	7 9.0	.3094	23 12.5	1.82
	4	.410	.5418	.1014	9.19	7 7.5	.3091	23 8.7	1.96
	5	.400	.5434	.1006	9.15	7 6.1	.3088	23 4.9	2.10
	6	.390	.5450	.0998	9.12	7 4.6	.3085	23 1.1	2.24
	7	.380	.5466	.0990	9.09	7 3.1	.3082	22 57.3	2.38
	8	.370	.5482	.0981	9.06	7 1.7	.3078	22 53.5	2.52
	9	.360	.5498	.0971	9.03	7 0.2	.3074	22 49.7	2.66
	10	.350	.5514	.0961	8.99	6 58.7	.3070	22 45.9	2.79

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	11	$-0^s.341$	−0.5530	+0.0951	8″.96	$6^h57^m.3$	1.3066	$22^h42^m.1$	−2″.93
	12	.331	.5546	.0940	8.93	6 55.8	.3062	22 38.3	3.06
	13	.321	.5562	.0929	8.90	6 54.3	.3057	22 34.5	3.20
	14	.312	.5579	.0917	8.86	6 52.9	.3053	22 30.6	3.33
	15	.302	.5595	.0905	8.83	6 51.4	.3048	22 26.8	3.46
	16	.293	.5611	.0893	8.80	6 50.0	.3043	22 22.9	3.59
	17	.283	.5627	.0880	8.77	6 48.5	.3038	22 19.1	3.72
	18	.274	.5644	.0867	8.73	6 47.1	.3033	22 15.2	3.85
	19	.265	.5660	.0854	8.70	6 45.7	.3027	22 11.3	3.98
	20	.256	.5676	.0840	8.67	6 44.2	.3022	22 7.5	4.10
	21	−0.247	−0.5692	+0.0826	8.64	6 42.8	1.3016	22 3.6	−4.23
	22	.238	.5708	.0811	8.61	6 41.4	.3011	21 59.7	4.35
	23	.229	.5724	.0797	8.57	6 40.0	.3005	21 55.7	4.47
	24	.220	.5739	.0782	8.54	6 38.6	.2999	21 51.8	4.59
	25	.212	.5755	.0767	8.51	6 37.2	.2993	21 47.9	4.71
	26	.203	.5770	.0752	8.48	6 35.8	.2987	21 43.9	4.83
	27	.195	.5786	.0737	8.45	6 34.4	.2981	21 40.0	4.95
	28	.187	.5801	.0722	8.42	6 33.0	.2974	21 36.0	5.06
	29	.178	.5817	.0706	8.39	6 31.7	.2968	21 32.1	5.17
	30	.170	.5832	.0690	8.36	6 30.3	.2961	21 28.1	5.28
	31	−0.162	−0.5847	+0.0674	8.33	6 29.0	1.2955	21 24.1	−5.39
Februar	1	.154	.5862	.0658	8.30	6 27.6	.2948	21 20.1	5.50
	2	.146	.5876	.0642	8.27	6 26.3	.2942	21 16.1	5.60
	3	.138	.5891	.0625	8.24	6 25.0	.2935	21 12.0	5.71
	4	.131	.5906	.0609	8.21	6 23.6	.2929	21 8.0	5.81
	5	.123	.5920	.0593	8.18	6 22.3	.2922	21 4.0	5.91
	6	.116	.5934	.0577	8.15	6 21.0	.2915	20 59.9	6.01
	7	.108	.5948	.0561	8.12	6 19.7	.2909	20 55.8	6.10
	8	.101	.5962	.0545	8.10	6 18.5	.2902	20 51.7	6.20
	9	.094	.5975	.0529	8.07	6 17.2	.2896	20 47.6	6.29
	10	−0.087	−0.5988	+0.0513	8.04	6 15.9	1.2889	20 43.5	−6.38
	11	.080	.6001	.0497	8.02	6 14.7	.2883	20 39.4	6.47
	12	.073	.6014	.0481	7.99	6 13.5	.2876	20 35.3	6.56
	13	.066	.6027	.0466	7.97	6 12.2	.2870	20 31.2	6.64
	14	.059	.6039	.0451	7.94	6 11.0	.2863	20 27.0	6.72
	15	.053	.6051	.0436	7.92	6 9.8	.2857	20 22.9	6.80
	16	.046	.6063	.0421	7.89	6 8.5	.2851	20 18.7	6.88
	17	.040	.6075	.0406	7.87	6 7.3	.2845	20 14.5	6.96
	18	.034	.6087	.0391	7.85	6 6.2	.2839	20 10.3	7.03
	19	.027	.6098	.0377	7.83	6 5.0	.2833	20 6.1	7.10
	20	−0.021	−0.6109	+0.0363	7.80	6 3.8	1.2827	20 1.9	−7.17
	21	.015	.6119	.0350	7.78	6 2.6	.2821	19 57.7	7.24
	22	.009	.6129	.0337	7.76	6 1.5	.2816	19 53.5	7.30
	23	−0.003	.6138	.0324	7.74	6 0.3	.2810	19 49.3	7.36
	24	+0.003	.6148	.0311	7.72	5 59.2	.2805	19 45.0	7.42
	25	.009	.6157	.0299	7.70	5 58.1	.2800	19 40.8	7.48
	26	.014	.6166	.0287	7.69	5 56.9	.2795	19 36.5	7.54
	27	.020	.6175	.0276	7.67	5 55.8	.2790	19 32.2	7.59
	28	.025	.6183	.0265	7.65	5 54.7	.2785	19 28.0	7.64
März	1	.031	.6191	.0254	7.64	5 53.6	.2781	19 23.7	7.69

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	2	+0.036	−0.6199	+0.0244	7".62	$5^h52^m.5$	1.2776	$19^h19^m.4$	−7".74
	3	.042	.6206	.0234	7.61	5 51.5	.2772	19 15.1	7.78
	4	.047	.6213	.0225	7.59	5 50.4	.2768	19 10.8	7.82
	5	.052	.6220	.0216	7.58	5 49.3	.2765	19 6.5	7.86
	6	.058	.6226	.0208	7.57	5 48.3	.2761	19 2.2	7.89
	7	.063	.6232	.0201	7.56	5 47.2	.2758	18 57.9	7.93
	8	.068	.6237	.0194	7.55	5 46.2	.2755	18 53.6	7.96
	9	.073	.6242	.0187	7.54	5 45.1	.2752	18 49.3	7.99
	10	.078	.6247	.0181	7.53	5 44.1	.2749	18 44.9	8.02
	11	.083	.6251	.0176	7.52	5 43.1	.2747	18 40.6	8.04
	12	+0.088	−0.6255	+0.0171	7.51	5 42.1	1.2745	18 36.3	−8.06
	13	.093	.6258	.0166	7.50	5 41.0	.2743	18 32.0	8.08
	14	.098	.6261	.0162	7.50	5 40.0	.2741	18 27.6	8.10
	15	.103	.6264	.0158	7.49	5 39.0	.2740	18 23.3	8.11
	16	.108	.6267	.0155	7.48	5 38.0	.2739	18 19.0	8.12
	17	.113	.6269	.0153	7.48	5 37.0	.2738	18 14.6	8.13
	18	.118	.6271	.0151	7.48	5 36.0	.2737	18 10.3	8.14
	19	.123	.6272	.0150	7.47	5 35.0	.2736	18 6.0	8.15
	20	.128	.6273	.0150	7.47	5 34.0	.2736	18 1.6	8.15
	21	.133	.6273	.0150	7.47	5 33.0	.2736	17 57.3	8.15
	22	+0.138	−0.6273	+0.0151	7.47	5 32.1	1.2736	17 53.0	−8.15
	23	.143	.6273	.0152	7.47	5 31.1	.2737	17 48.7	8.14
	24	.147	.6272	.0154	7.48	5 30.1	.2738	17 44.4	8.13
	25	.152	.6271	.0156	7.48	5 29.1	.2739	17 40.1	8.12
	26	.157	.6270	.0159	7.48	5 28.1	.2740	17 35.7	8.11
	27	.162	.6268	.0163	7.48	5 27.1	.2742	17 31.4	8.10
	28	.167	.6266	.0167	7.49	5 26.1	.2743	17 27.2	8.08
	29	.172	.6263	.0171	7.49	5 25.2	.2745	17 22.9	8.06
	30	.177	.6260	.0176	7.50	5 24.2	.2747	17 18.6	8.04
	31	.182	.6256	.0181	7.51	5 23.2	.2750	17 14.3	8.01
April	1	+0.187	−0.6252	+0.0187	7.51	5 22.2	1.2752	17 10.0	−7.99
	2	.192	.6248	.0194	7.52	5 21.2	.2755	17 5.8	7.96
	3	.197	.6243	.0201	7.53	5 20.2	.2758	17 1.5	7.93
	4	.203	.6238	.0209	7.54	5 19.2	.2761	16 57.3	7.89
	5	.208	.6233	.0217	7.55	5 18.2	.2765	16 53.0	7.86
	6	.213	.6227	.0226	7.57	5 17.2	.2769	16 48.8	7.82
	7	.219	.6221	.0235	7.58	5 16.2	.2772	16 44.6	7.78
	8	.224	.6214	.0245	7.59	5 15.2	.2776	16 40.4	7.73
	9	.229	.6207	.0255	7.60	5 14.2	.2781	16 36.2	7.69
	10	.235	.6200	.0265	7.62	5 13.2	.2785	16 32.0	7.64
	11	+0.240	−0.6193	+0.0276	7.63	5 12.2	1.2790	16 27.8	−7.59
	12	.246	.6185	.0287	7.65	5 11.2	.2794	16 23.7	7.54
	13	.252	.6177	.0298	7.67	5 10.2	.2799	16 19.5	7.49
	14	.257	.6168	.0310	7.68	5 9.1	.2804	16 15.4	7.43
	15	.263	.6159	.0322	7.70	5 8.1	.2809	16 11.3	7.37
	16	.269	.6149	.0334	7.72	5 7.1	.2814	16 7.2	7.31
	17	.275	.6140	.0347	7.74	5 6.0	.2820	16 3.1	7.25
	18	.281	.6130	.0360	7.76	5 5.0	.2825	15 59.0	7.19
	19	.287	.6120	.0373	7.78	5 3.9	.2831	15 54.9	7.12
	20	.293	.6110	.0387	7.80	5 2.8	.2837	15 50.8	7.05

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	21	+0.^{s}300	−0.6099	+0.0401	7.″82	5^h 1.^{m}7	1.2842	$15^h46^m.8$	−6.″98
	22	.306	.6088	.0415	7.84	5 0.6	.2848	15 42.7	6.91
	23	.312	.6077	.0429	7.87	4 59.5	.2854	15 38.7	6.83
	24	.319	.6065	.0444	7.89	4 58.4	.2860	15 34.7	6.76
	25	.325	.6053	.0459	7.91	4 57.3	.2867	15 30.7	6.68
	26	.332	.6041	.0474	7.94	4 56.2	.2873	15 26.7	6.60
	27	.339	.6029	.0489	7.96	4 55.1	.2879	15 22.7	6.51
	28	.345	.6016	.0505	7.99	4 54.0	.2885	15 18.8	6.43
	29	.352	.6004	.0520	8.01	4 52.9	.2892	15 14.8	6.34
	30	.359	.5991	.0535	8.04	4 51.7	.2898	15 10.9	6.26
Mai	1	+0.366	−0.5978	+0.0550	8.07	4 50.6	1.2904	15 7.0	−6.17
	2	.374	.5964	.0565	8.09	4 49.4	.2911	15 3.1	6.08
	3	.381	.5951	.0580	8.12	4 48.3	.2917	14 59.2	5.99
	4	.388	.5937	.0596	8.15	4 47.1	.2923	14 55.3	5.89
	5	.395	.5923	.0611	8.17	4 45.9	.2930	14 51.4	5.80
	6	.403	.5908	.0627	8.20	4 44.8	.2936	14 47.6	5.70
	7	.410	.5894	.0643	8.23	4 43.6	.2942	14 43.8	5.60
	8	.418	.5879	.0658	8.26	4 42.4	.2948	14 39.9	5.50
	9	.426	.5864	.0673	8.29	4 41.2	.2954	14 36.1	5.40
	10	.434	.5849	.0688	8.32	4 40.0	.2961	14 32.3	5.29
	11	+0.442	−0.5834	+0.0703	8.35	4 38.8	1.2967	14 28.5	−5.19
	12	.450	.5818	.0718	8.38	4 37.6	.2973	14 24.7	5.08
	13	.458	.5803	.0733	8.42	4 36.4	.2979	14 21.0	4.97
	14	.466	.5787	.0747	8.45	4 35.2	.2985	14 17.2	4.86
	15	.474	.5771	.0762	8.48	4 33.9	.2991	14 13.5	4.75
	16	.483	.5755	.0776	8.51	4 32.7	.2996	14 9.7	4.64
	17	.491	.5739	.0790	8.54	4 31.4	.3002	14 6.0	4.53
	18	.500	.5723	.0804	8.57	4 30.2	.3008	14 2.3	4.41
	19	.508	.5707	.0818	8.61	4 28.9	.3013	13 58.6	4.30
	20	.517	.5691	.0831	8.64	4 27.6	.3018	13 54.9	4.18
	21	+0.526	−0.5675	+0.0844	8.67	4 26.3	1.3024	13 51.3	−4.06
	22	.534	.5659	.0857	8.71	4 25.1	.3029	13 47.6	3.94
	23	.543	.5643	.0870	8.74	4 23.8	.3034	13 43.9	3.82
	24	.552	.5626	.0882	8.77	4 22.5	.3039	13 40.3	3.70
	25	.561	.5609	.0894	8.80	4 21.2	.3043	13 36.7	3.58
	26	.570	.5592	.0906	8.84	4 19.9	.3048	13 33.0	3.46
	27	.580	.5575	.0917	8.87	4 18.7	.3053	13 29.4	3.33
	28	.589	.5558	.0928	8.91	4 17.4	.3057	13 25.8	3.21
	29	.598	.5542	.0939	8.94	4 16.0	.3061	13 22.2	3.08
	30	.607	.5525	.0949	8.97	4 14.7	.3065	13 18.6	2.96
	31	+0.617	−0.5508	+0.0959	9.01	4 13.4	1.3069	13 15.0	−2.83
Juni	1	.626	.5491	.0968	9.04	4 12.1	.3073	13 11.4	2.70
	2	.636	.5474	.0977	9.08	4 10.8	.3077	13 7.9	2.57
	3	.645	.5457	.0986	9.11	4 9.4	.3080	13 4.3	2.44
	4	.655	.5440	.0994	9.14	4 8.1	.3083	13 0.8	2.31
	5	.665	.5423	.1002	9.18	4 6.8	.3086	12 57.2	2.18
	6	.674	.5407	.1009	9.21	4 5.4	.3089	12 53.7	2.05
	7	.684	.5390	.1016	9.25	4 4.1	.3092	12 50.1	1.92
	8	.694	.5373	.1023	9.28	4 2.8	.3095	12 46.6	1.79
	9	.704	.5356	.1029	9.31	4 1.4	.3097	12 43.0	1.65

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	10	+0.714	−0.5340	+0.1034	9.35	4h 0m.0	1.3099	12h39m.5	−1.52
	11	.723	.5323	.1039	9.38	3 58.7	.3101	12 36.0	1.39
	12	.733	.5306	.1044	9.41	3 57.3	.3103	12 32.5	1.25
	13	.743	.5289	.1048	9.45	3 56.0	.3105	12 29.0	1.12
	14	.753	.5272	.1052	9.48	3 54.7	.3106	12 25.4	0.98
	15	.763	.5255	.1055	9.51	3 53.3	.3107	12 21.9	0.85
	16	.773	.5239	.1058	9.55	3 52.0	.3108	12 18.4	0.71
	17	.783	.5222	.1060	9.58	3 50.6	.3109	12 14.9	0.58
	18	.793	.5205	.1062	9.61	3 49.3	.3110	12 11.4	0.44
	19	.803	.5189	.1063	9.65	3 47.9	.3111	12 7.9	0.31
	20	+0.813	−0.5173	+0.1064	9.68	3 46.6	1.3111	12 4.4	−0.17
	21	.823	.5157	.1065	9.71	3 45.2	.3111	12 0.9	−0.04
	22	.834	.5141	.1065	9.74	3 43.8	.3111	11 57.4	+0.10
	23	.844	.5125	.1065	9.77	3 42.5	.3111	11 53.9	0.23
	24	.854	.5109	.1064	9.81	3 41.1	.3110	11 50.4	0.37
	25	.864	.5094	.1062	9.84	3 39.8	.3110	11 46.9	0.51
	26	.874	.5078	.1060	9.87	3 38.4	.3109	11 43.4	0.64
	27	.884	.5062	.1057	9.90	3 37.1	.3108	11 39.9	0.78
	28	.894	.5046	.1054	9.93	3 35.7	.3107	11 36.4	0.91
	29	.904	.5031	.1050	9.96	3 34.4	.3105	11 32.9	1.05
	30	+0.914	−0.5015	+0.1046	9.99	3 33.1	1.3104	11 29.4	+1.18
Juli	1	.923	.5000	.1042	10.02	3 31.7	.3102	11 25.9	1.31
	2	.933	.4985	.1037	10.05	3 30.4	.3100	11 22.4	1.45
	3	.943	.4970	.1032	10.08	3 29.1	.3098	11 18.9	1.58
	4	.953	.4955	.1026	10.11	3 27.7	.3096	11 15.3	1.71
	5	.963	.4941	.1020	10.14	3 26.4	.3093	11 11.8	1.85
	6	.973	.4926	.1013	10.17	3 25.1	.3091	11 8.3	1.98
	7	.982	.4912	.1006	10.20	3 23.8	.3088	11 4.8	2.11
	8	0.992	.4898	.0998	10.23	3 22.5	.3085	11 1.2	2.24
	9	1.002	.4884	.0990	10.26	3 21.2	.3082	10 57.7	2.37
	10	+1.011	−0.4870	+0.0982	10.29	3 19.9	1.3079	10 54.1	+2.50
	11	.021	.4856	.0973	10.31	3 18.6	.3075	10 50.6	2.63
	12	.030	.4842	.0964	10.34	3 17.3	.3071	10 47.0	2.76
	13	.040	.4829	.0954	10.37	3 16.0	.3068	10 43.4	2.88
	14	.049	.4815	.0944	10.40	3 14.7	.3064	10 39.9	3.01
	15	.059	.4802	.0934	10.42	3 13.5	.3060	10 36.3	3.14
	16	.068	.4789	.0923	10.45	3 12.2	.3055	10 32.7	3.26
	17	.077	.4776	.0912	10.48	3 11.0	.3051	10 29.1	3.38
	18	.086	.4763	.0901	10.50	3 9.7	.3046	10 25.5	3.51
	19	.095	.4750	.0889	10.53	3 8.5	.3042	10 21.9	3.63
	20	+1.104	−0.4737	+0.0877	10.55	3 7.3	1.3037	10 18.3	+3.75
	21	.113	.4725	.0865	10.58	3 6.1	.3032	10 14.6	3.87
	22	.122	.4712	.0853	10.60	3 4.8	.3027	10 11.0	3.99
	23	.131	.4700	.0840	10.63	3 3.6	.3022	10 7.3	4.11
	24	.140	.4688	.0827	10.65	3 2.4	.3016	10 3.7	4.23
	25	.148	.4676	.0813	10.68	3 1.2	.3011	10 0.0	4.34
	26	.157	.4664	.0799	10.70	3 0.1	.3006	9 56.4	4.46
	27	.165	.4652	.0785	10.72	2 58.9	.3000	9 52.7	4.57
	28	.174	.4640	.0771	10.75	2 57.7	.2995	9 49.0	4.68
	29	.182	.4629	.0757	10.77	2 56.6	.2989	9 45.3	4.79

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	30	+1.s190	−0.4617	+0.0743	10.″79	$2^h55^m.4$	1.2983	$9^h41^m.5$	+4.″90
	31	.199	.4606	.0729	10.82	2 54.3	.2977	9 37.8	5.01
August	1	.207	.4595	.0714	10.84	2 53.1	.2971	9 34.1	5.11
	2	.215	.4584	.0699	10.86	2 52.0	.2965	9 30.3	5.22
	3	.223	.4573	.0684	10.88	2 50.9	.2959	9 26.6	5.32
	4	.230	.4562	.0669	10.90	2 49.8	.2953	9 22.8	5.43
	5	.238	.4551	.0654	10.93	2 48.8	.2947	9 19.0	5.53
	6	.246	.4540	.0639	10.95	2 47.7	.2941	9 15.2	5.63
	7	.254	.4529	.0623	10.97	2 46.6	.2934	9 11.4	5.73
	8	.261	.4519	.0608	10.99	2 45.6	.2928	9 7.6	5.82
	9	+1.268	−0.4508	+0.0592	11.01	2 44.5	1.2922	9 3.7	+5.92
	10	.276	.4498	.0577	11.03	2 43.5	.2916	8 59.9	6.01
	11	.283	.4488	.0562	11.05	2 42.5	.2909	8 56.0	6.10
	12	.290	.4478	.0547	11.07	2 41.5	.2903	8 52.1	6.19
	13	.297	.4468	.0531	11.09	2 40.5	.2897	8 48.3	6.28
	14	.304	.4458	.0516	11.11	2 39.5	.2890	8 44.4	6.36
	15	.311	.4448	.0501	11.13	2 38.6	.2884	8 40.4	6.45
	16	.318	.4438	.0486	11.15	2 37.6	.2878	8 36.5	6.53
	17	.325	.4428	.0471	11.17	2 36.7	.2872	8 32.6	6.61
	18	.331	.4419	.0457	11.19	2 35.7	.2866	8 28.6	6.69
	19	+1.338	−0.4409	+0.0442	11.21	2 34.8	1.2860	8 24.7	+6.77
	20	.344	.4400	.0428	11.23	2 33.9	.2854	8 20.7	6.84
	21	.351	.4390	.0414	11.25	2 33.0	.2848	8 16.7	6.92
	22	.357	.4381	.0400	11.27	2 32.2	.2842	8 12.7	6.99
	23	.364	.4371	.0386	11.29	2 31.3	.2836	8 8.7	7.06
	24	.370	.4362	.0373	11.31	2 30.5	.2831	8 4.7	7.13
	25	.376	.4352	.0359	11.33	2 29.6	.2825	8 0.6	7.19
	26	.382	.4342	.0346	11.34	2 28.8	.2820	7 56.6	7.26
	27	.388	.4333	.0333	11.36	2 28.0	.2814	7 52.5	7.32
	28	.394	.4323	.0321	11.38	2 27.2	.2809	7 48.4	7.38
	29	+1.400	−0.4314	+0.0309	11.40	2 26.5	1.2804	7 44.4	+7.43
	30	.406	.4304	.0297	11.42	2 25.7	.2799	7 40.3	7.49
	31	.411	.4295	.0286	11.44	2 25.0	.2794	7 36.2	7.54
Septbr.	1	.417	.4285	.0275	11.46	2 24.2	.2790	7 32.0	7.59
	2	.423	.4275	.0264	11.48	2 23.5	.2785	7 27.9	7.64
	3	.428	.4265	.0254	11.50	2 22.8	.2781	7 23.8	7.69
	4	.434	.4256	.0244	11.52	2 22.1	.2777	7 19.6	7.73
	5	.439	.4246	.0235	11.54	2 21.4	.2773	7 15.5	7.78
	6	.445	.4237	.0226	11.56	2 20.8	.2769	7 11.3	7.82
	7	.450	.4227	.0218	11.58	2 20.1	.2765	7 7.1	7.85
	8	+1.455	−0.4217	+0.0210	11.60	2 19.5	1.2762	7 3.0	+7.89
	9	.460	.4207	.0202	11.62	2 18.9	.2758	6 58.8	7.92
	10	.466	.4197	.0195	11.64	2 18.3	.2755	6 54.5	7.95
	11	.471	.4186	.0189	11.66	2 17.7	.2753	6 50.3	7.98
	12	.476	.4176	.0183	11.68	2 17.1	.2750	6 46.1	8.01
	13	.481	.4165	.0177	11.70	2 16.5	.2748	6 41.9	8.04
	14	.486	.4155	.0172	11.72	2 16.0	.2746	6 37.7	8.06
	15	.491	.4144	.0168	11.74	2 15.5	.2744	6 33.4	8.08
	16	.496	.4133	.0164	11.76	2 14.9	.2742	6 29.2	8.09
	17	.501	.4122	.0160	11.79	2 14.4	.2740	6 24.9	8.11

1831

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Septbr. 18	+1.506	−0.4111	+0.0157	11.81	$2^h13^m.9$	1.2739	$6^h20^m.7$	+8.12
19	.511	.4100	.0154	11.83	2 13.5	.2738	6 16.4	8.13
20	.516	.4089	.0152	11.85	2 13.0	.2737	6 12.1	8.14
21	.521	.4077	.0151	11.88	2 12.5	.2737	6 7.9	8.15
22	.526	.4065	.0150	11.90	2 12.1	.2736	6 3.6	8.15
23	.531	.4053	.0150	11.92	2 11.7	.2736	5 59.3	8.15
24	.536	.4041	.0150	11.95	2 11.2	.2736	5 55.1	8.15
25	.541	.4028	.0151	11.97	2 10.8	.2737	5 50.8	8.14
26	.546	.4015	.0152	12.00	2 10.4	.2737	5 46.5	8.14
27	.551	.4002	.0154	12.03	2 10.0	.2738	5 42.2	8.13
28	+1.556	−0.3989	+0.0157	12.05	2 9.6	1.2739	5 37.9	+8.12
29	.561	.3976	.0160	12.08	2 9.3	.2741	5 33.6	8.10
30	.566	.3962	.0164	12.11	2 8.9	.2742	5 29.4	8.09
Oktbr. 1	.571	.3948	.0169	12.13	2 8.6	.2744	5 25.1	8.07
2	.577	.3934	.0174	12.16	2 8.2	.2746	5 20.8	8.05
3	.582	.3920	.0179	12.19	2 7.9	.2749	5 16.5	8.03
4	.587	.3906	.0185	12.22	2 7.6	.2751	5 12.3	8.00
5	.592	.3891	.0191	12.25	2 7.3	.2754	5 8.0	7.97
6	.597	.3876	.0198	12.28	2 7.0	.2757	5 3.7	7.94
7	.603	.3860	.0205	12.31	2 6.7	.2760	4 59.5	7.91
8	+1.608	−0.3844	+0.0213	12.34	2 6.4	1.2763	4 55.2	+7.87
9	.613	.3828	.0222	12.37	2 6.1	.2767	4 50.9	7.84
10	.619	.3812	.0231	12.41	2 5.9	.2771	4 46.7	7.80
11	.624	.3795	.0240	12.44	2 5.6	.2775	4 42.4	7.76
12	.630	.3778	.0250	12.47	2 5.4	.2779	4 38.2	7.71
13	.635	.3761	.0260	12.51	2 5.1	.2783	4 34.0	7.66
14	.641	.3744	.0271	12.54	2 4.8	.2788	4 29.7	7.62
15	.647	.3726	.0282	12.58	2 4.6	.2792	4 25.5	7.56
16	.653	.3708	.0294	12.62	2 4.4	.2797	4 21.3	7.51
17	.658	.3689	.0306	12.65	2 4.1	.2802	4 17.1	7.45
18	+1.664	−0.3670	+0.0318	12.69	2 3.9	1.2808	4 12.9	+7.39
19	.670	.3651	.0331	12.73	2 3.7	.2813	4 8.7	7.33
20	.677	.3632	.0344	12.77	2 3.5	.2818	4 4.5	7.27
21	.683	.3612	.0357	12.81	2 3.3	.2824	4 0.3	7.21
22	.689	.3592	.0370	12.85	2 3.0	.2830	3 56.2	7.14
23	.695	.3571	.0384	12.89	2 2.8	.2835	3 52.0	7.07
24	.702	.3550	.0398	12.93	2 2.6	.2841	3 47.9	7.00
25	.708	.3529	.0413	12.98	2 2.4	.2847	3 43.7	6.92
26	.715	.3508	.0427	13.02	2 2.2	.2853	3 39.6	6.85
27	.722	.3486	.0442	13.06	2 2.0	.2860	3 35.5	6.77
28	+1.728	−0.3464	+0.0457	13.11	2 1.8	1.2866	3 31.3	+6.69
29	.735	.3441	.0472	13.15	2 1.6	.2872	3 27.2	6.61
30	.742	.3418	.0487	13.20	2 1.3	.2879	3 23.2	6.52
31	.749	.3395	.0503	13.24	2 1.1	.2885	3 19.1	6.44
Novbr. 1	.756	.3372	.0519	13.29	2 0.9	.2891	3 15.0	6.35
2	.763	.3348	.0535	13.34	2 0.7	.2898	3 10.9	6.26
3	.771	.3324	.0551	13.38	2 0.5	.2905	3 6.9	6.17
4	.778	.3300	.0567	13.43	2 0.3	.2911	3 2.8	6.07
5	.786	.3275	.0583	13.48	2 0.1	.2918	2 58.8	5.98
6	.793	.3250	.0599	13.53	1 59.8	.2924	2 54.8	5.88

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	+1.801	−0.3225	+0.0615	13.″58	$1^h59^m.6$	1.2931	$2^h50^m.8$	+5.″78
	8	.809	.3200	.0631	13.64	1 59.4	.2937	2 46.8	5.68
	9	.817	.3175	.0647	13.69	1 59.1	.2944	2 42.8	5.57
	10	.825	.3149	.0663	13.74	1 58.9	.2950	2 38.8	5.47
	11	.833	.3123	.0679	13.79	1 58.6	.2957	2 34.8	5.36
	12	.841	.3096	.0694	13.84	1 58.4	.2963	2 30.9	5.25
	13	.860	.3069	.0710	13.90	1 58.1	.2970	2 26.9	5.14
	14	.868	.3041	.0725	13.95	1 57.9	.2976	2 23.0	5.03
	15	.876	.3014	.0741	14.01	1 57.6	.2982	2 19.0	4.92
	16	.875	.2986	.0756	14.06	1 57.4	.2988	2 15.1	4.80
	17	+1.884	−0.2959	+0.0771	14.12	1 57.1	1.2994	2 11.2	+4.68
	18	.892	.2931	.0785	14.17	1 56.8	.3000	2 7.3	4.57
	19	.901	.2903	.0800	14.23	1 56.5	.3006	2 3.4	4.45
	20	.910	.2875	.0814	14.29	1 56.2	.3012	1 59.5	4.33
	21	.919	.2846	.0828	14.34	1 55.9	.3017	1 55.6	4.20
	22	.929	.2817	.0842	14.40	1 55.6	.3023	1 51.8	4.08
	23	.938	.2788	.0856	14.46	1 55.3	.3028	1 47.9	3.95
	24	.947	.2759	.0869	14.52	1 55.0	.3034	1 44.0	3.83
	25	.957	.2730	.0882	14.58	1 54.6	.3039	1 40.2	3.70
	26	.966	.2700	.0895	14.64	1 54.3	.3044	1 36.4	3.57
	27	+1.976	−0.2671	+0.0907	14.70	1 54.0	1.3049	1 32.5	+3.44
	28	.985	.2641	.0919	14.76	1 53.6	.3054	1 28.7	3.31
	29	1.995	.2611	.0931	14.82	1 53.3	.3058	1 24.9	3.18
	30	2.005	.2581	.0942	14.88	1 52.9	.3063	1 21.1	3.04
Dezbr.	1	.015	.2551	.0953	14.94	1 52.5	.3067	1 17.3	2.91
	2	.025	.2521	.0963	15.00	1 52.1	.3071	1 13.5	2.77
	3	.035	.2491	.0973	15.06	1 51.8	.3075	1 9.7	2.64
	4	.045	.2461	.0982	15.12	1 51.4	.3079	1 5.9	2.50
	5	.055	.2430	.0991	15.18	1 51.0	.3082	1 2.1	2.36
	6	.065	.2400	.0999	15.24	1 50.6	.3085	0 58.3	2.22
	7	+2.075	−0.2370	+0.1007	15.30	1 50.2	1.3088	0 54.6	+2.08
	8	.086	.2340	.1014	15.36	1 49.7	.3091	0 50.8	1.94
	9	.096	.2309	.1021	15.42	1 49.3	.3094	0 47.0	1.80
	10	.106	.2279	.1028	15.48	1 48.9	.3097	0 43.3	1.66
	11	.117	.2248	.1034	15.54	1 48.4	.3099	0 39.5	1.52
	12	.127	.2217	.1040	15.61	1 48.0	.3101	0 35.8	1.38
	13	.138	.2187	.1045	15.67	1 47.5	.3103	0 32.0	1.24
	14	.148	.2156	.1049	15.73	1 47.1	.3105	0 28.3	1.09
	15	.159	.2125	.1053	15.79	1 46.6	.3106	0 24.5	0.95
	16	.169	.2095	.1056	15.85	1 46.1	.3108	0 20.8	0.81
	17	+2.180	−0.2065	+0.1059	15.91	1 45.7	1.3109	0 17.1	+0.66
	18	.190	.2035	.1061	15.97	1 45.2	.3110	0 13.3	0.52
	19	.201	.2005	.1063	16.03	1 44.7	.3110	0 9.6	0.37
	20	.212	.1975	.1064	16.09	1 44.2	.3111	0 5.9	0.23
	21	.222	.1945	.1065	16.15	1 43.7	.3111	0 2.1	+0.08
	22	.233	.1916	.1065	16.21	1 43.2	.3111	23 58.4	−0.06
	23	.244	.1886	.1065	16.27	1 42.7	.3111	23 54.6	0.21
	24	.254	.1857	.1064	16.33	1 42.2	.3111	23 50.9	0.35
	25	.265	.1827	.1062	16.39	1 41.6	.3110	23 47.2	0.50
	26	.276	.1798	.1060	16.45	1 41.1	.3109	23 43.4	0.64

1831

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	$+2^s.286$	−0.1769	+0.1057	16″.50	$1^h40^m.6$	1.3108	$23^h39^m.7$	−0″.79
	28	.297	.1740	.1054	16.56	1 40.0	.3107	23 35.9	0.93
	29	.307	.1711	.1050	16.62	1 39.5	.3105	23 32.2	1.07
	30	.318	.1682	.1046	16.68	1 39.0	.3104	23 28.4	1.22
	31	.328	.1653	.1042	16.74	1 38.4	.3102	23 24.7	1.36

1832

Januar	1	$-0^s.732$	−0.5795	+0.1035	8″.43	$8^h17^m.6$	1.3100	$23^h20^m.9$	−1″.50
	2	.722	.5820	.1029	8.38	8 16.3	.3097	23 17.1	1.64
	3	.711	.5845	.1022	8.33	8 15.0	.3095	23 13.4	1.79
	4	.701	.5870	.1015	8.28	8 13.7	.3092	23 9.6	1.93
	5	.690	.5895	.1008	8.23	8 12.4	.3089	23 5.8	2.07
	6	.680	.5920	.1000	8.18	8 11.1	.3086	23 2.0	2.21
	7	.670	.5945	.0992	8.13	8 9.7	.3082	22 58.3	2.35
	8	.660	.5970	.0983	8.08	8 8.4	.3079	22 54.5	2.48
	9	.650	.5995	.0974	8.03	8 7.1	.3075	22 50.7	2.62
	10	.640	.6020	.0964	7.98	8 5.8	.3071	22 46.9	2.76
	11	−0.630	−0.6045	+0.0954	7.93	8 4.4	1.3067	22 43.0	−2.90
	12	.620	.6070	.0943	7.88	8 3.1	.3063	22 39.2	3.03
	13	.610	.6095	.0932	7.83	8 1.8	.3059	22 35.4	3.16
	14	.600	.6120	.0920	7.78	8 0.5	.3054	22 31.6	3.30
	15	.590	.6145	.0908	7.73	7 59.2	.3049	22 27.7	3.43
	16	.581	.6170	.0896	7.68	7 57.9	.3044	22 23.9	3.56
	17	.571	.6195	.0883	7.63	7 56.6	.3039	22 20.0	3.69
	18	.562	.6220	.0870	7.58	7 55.3	.3034	22 16.2	3.82
	19	.552	.6244	.0856	7.53	7 54.0	.3029	22 12.3	3.95
	20	.543	.6269	.0843	7.48	7 52.7	.3023	22 8.4	4.07
	21	−0.534	−0.6293	+0.0829	7.43	7 51.4	1.3018	22 4.5	−4.20
	22	.525	.6318	.0815	7.38	7 50.1	.3012	22 0.6	4.32
	23	.515	.6342	.0800	7.33	7 48.8	.3006	21 56.7	4.44
	24	.506	.6367	.0786	7.29	7 47.5	.3000	21 52.8	4.56
	25	.498	.6391	.0771	7.24	7 46.2	.2994	21 48.8	4.68
	26	.489	.6415	.0756	7.19	7 45.0	.2988	21 44.9	4.80
	27	.480	.6438	.0741	7.14	7 43.7	.2982	21 41.0	4.92
	28	.472	.6462	.0726	7.09	7 42.4	.2976	21 37.0	5.03
	29	.463	.6485	.0710	7.05	7 41.1	.2969	21 33.0	5.14
	30	.455	.6508	.0694	7.00	7 39.9	.2963	21 29.0	5.26
	31	−0.446	−0.6531	+0.0678	6.95	7 38.6	1.2957	21 25.1	−5.37
Februar	1	.438	.6554	.0662	6.91	7 37.3	.2950	21 21.1	5.47
	2	.430	.6577	.0646	6.86	7 36.1	.2944	21 17.0	5.58
	3	.422	.6600	.0630	6.82	7 34.8	.2937	21 13.0	5.68
	4	.414	.6623	.0613	6.77	7 33.6	.2930	21 9.0	5.78
	5	.406	.6645	.0597	6.73	7 32.4	.2924	21 4.9	5.88
	6	.399	.6667	.0581	6.69	7 31.1	.2917	21 0.9	5.98
	7	.391	.6688	.0565	6.64	7 29.9	.2910	20 56.8	6.08
	8	.384	.6709	.0549	6.60	7 28.7	.2904	20 52.7	6.17
	9	.376	.6730	.0533	6.56	7 27.4	.2897	20 48.6	6.27

1832

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	$-0^s.369$	−0.6750	+0.0517	6″.52	$7^h26^m.2$	1.2891	$20^h44^m.5$	−6″.36
11	.362	.6770	.0501	6.48	7 25.0	.2884	20 40.4	6.45
12	.354	.6790	.0486	6.44	7 23.8	.2878	20 36.3	6.53
13	.347	.6810	.0470	6.40	7 22.6	.2871	20 32.2	6.62
14	.340	.6829	.0455	6.36	7 21.4	.2865	20 28.0	6.70
15	.334	.6848	.0440	6.32	7 20.1	.2859	20 23.9	6.78
16	.327	.6867	.0425	6.28	7 18.9	.2852	20 19.7	6.86
17	.320	.6886	.0410	6.24	7 17.7	.2846	20 15.5	6.94
18	.314	.6904	.0396	6.21	7 16.5	.2840	20 11.3	7.01
19	.307	.6922	.0381	6.17	7 15.3	.2834	20 7.2	7.08
20	−0.301	−0.6940	+0.0367	6.14	7 14.1	1.2828	20 3.0	−7.15
21	.294	.6958	.0353	6.10	7 12.9	.2823	19 58.7	7.22
22	.288	.6975	.0340	6.07	7 11.7	.2817	19 54.5	7.29
23	.282	.6992	.0327	6.03	7 10.5	.2811	19 50.3	7.35
24	.276	.7008	.0314	6.00	7 9.3	.2806	19 46.0	7.41
25	.270	.7024	.0302	5.97	7 8.1	.2801	19 41.8	7.47
26	.264	.7039	.0290	5.94	7 6.9	.2796	19 37.5	7.52
27	.258	.7054	.0278	5.91	7 5.7	.2791	19 33.3	7.58
28	.252	.7068	.0267	5.88	7 4.5	.2786	19 29.0	7.63
29	.246	.7082	.0256	5.85	7 3.3	.2782	19 24.7	7.68
März 1	−0.241	−0.7096	+0.0246	5.82	7 2.1	1.2777	19 20.4	−7.72
2	.235	.7110	.0236	5.79	7 0.9	.2773	19 16.2	7.77
3	.229	.7124	.0227	5.77	6 59.6	.2769	19 11.9	7.81
4	.224	.7137	.0218	5.74	6 58.4	.2766	19 7.6	7.85
5	.218	.7149	.0210	5.72	6 57.2	.2762	19 3.2	7.89
6	.213	.7161	.0202	5.69	6 56.0	.2759	18 58.9	7.92
7	.208	.7172	.0195	5.67	6 54.7	.2756	18 54.6	7.95
8	.202	.7183	.0188	5.65	6 53.5	.2753	18 50.3	7.98
9	.197	.7194	.0182	5.63	6 52.3	.2750	18 46.0	8.01
10	.192	.7205	.0177	5.61	6 51.0	.2747	18 41.7	8.03
11	−0.186	−0.7215	+0.0172	5.58	6 49.7	1.2745	18 37.3	−8.06
12	.181	.7225	.0167	5.56	6 48.5	.2743	18 33.0	8.08
13	.176	.7234	.0163	5.55	6 47.2	.2742	18 28.7	8.09
14	.171	.7243	.0159	5.53	6 45.9	.2740	18 24.3	8.11
15	.166	.7251	.0156	5.51	6 44.6	.2739	18 20.0	8.12
16	.161	.7259	.0154	5.50	6 43.3	.2738	18 15.7	8.13
17	.155	.7266	.0152	5.48	6 42.0	.2737	18 11.3	8.14
18	.150	.7273	.0151	5.47	6 40.7	.2737	18 7.0	8.15
19	.145	.7280	.0150	5.45	6 39.4	.2736	18 2.7	8.15
20	.140	.7286	.0150	5.44	6 38.1	.2736	17 58.4	8.15
21	−0.135	−0.7292	+0.0150	5.43	6 36.7	1.2736	17 54.0	−8.15
22	.130	.7297	.0151	5.42	6 35.3	.2737	17 49.7	8.14
23	.125	.7302	.0153	5.41	6 34.0	.2738	17 45.4	8.13
24	.120	.7307	.0155	5.40	6 32.6	.2739	17 41.1	8.12
25	.114	.7311	.0158	5.39	6 31.2	.2740	17 36.8	8.11
26	.109	.7315	.0162	5.38	6 29.8	.2741	17 32.5	8.10
27	.104	.7318	.0166	5.38	6 28.3	.2743	17 28.2	8.08
28	.099	.7321	.0170	5.37	6 26.9	.2745	17 23.9	8.06
29	.094	.7323	.0175	5.37	6 25.5	.2747	17 19.6	8.04
30	.088	.7325	.0180	5.36	6 24.0	.2749	17 15.3	8.02

1832

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	31	$-0^s.083$	−0.7327	+0.0186	5″36	$6^h22^m.5$	1.2752	$17^h11^m.1$	−7″99
April	1	.078	.7329	.0192	5.36	6 21.0	.2754	17 6.8	7.96
	2	.072	.7330	.0199	5.35	6 19.5	.2757	17 2.6	7.93
	3	.067	.7331	.0207	5.35	6 18.0	.2761	16 58.3	7.90
	4	.061	.7331	.0215	5.35	6 16.5	.2764	16 54.1	7.87
	5	.056	.7331	.0224	5.35	6 15.0	.2768	16 49.9	7.83
	6	.050	.7330	.0233	5.35	6 13.4	.2772	16 45.6	7.79
	7	.045	.7329	.0242	5.36	6 11.8	.2776	16 41.4	7.75
	8	.039	.7327	.0252	5.36	6 10.2	.2780	16 37.2	7.70
	9	.033	.7325	.0262	5.36	6 8.6	.2784	16 33.0	7.65
	10	−0.028	−0.7323	+0.0273	5.37	6 7.0	1.2789	16 28.9	−7.60
	11	.022	.7321	.0284	5.37	6 5.4	.2793	16 24.7	7.55
	12	.016	.7318	.0295	5.38	6 3.8	.2798	16 20.5	7.50
	13	.010	.7315	.0307	5.38	6 2.1	.2803	16 16.4	7.44
	14	−0.004	.7311	.0319	5.39	6 0.5	.2808	16 12.3	7.38
	15	+0.002	.7307	.0331	5.40	5 58.8	.2813	16 8.1	7.32
	16	.008	.7303	.0344	5.41	5 57.1	.2819	16 4.0	7.26
	17	.014	.7298	.0357	5.42	5 55.4	.2824	16 0.0	7.20
	18	.021	.7293	.0370	5.43	5 53.7	.2830	15 55.9	7.13
	19	.027	.7288	.0384	5.44	5 51.9	.2835	15 51.8	7.07
	20	+0.033	−0.7282	+0.0398	5.45	5 50.1	1.2841	15 47.8	−7.00
	21	.040	.7276	.0412	5.46	5 48.3	.2847	15 43.7	6.92
	22	.047	.7270	.0426	5.47	5 46.5	.2853	15 39.7	6.85
	23	.053	.7263	.0440	5.49	5 44.7	.2859	15 35.7	6.78
	24	.060	.7256	.0455	5.50	5 42.9	.2865	15 31.7	6.70
	25	.067	.7249	.0470	5.51	5 41.1	.2871	15 27.7	6.62
	26	.074	.7242	.0485	5.53	5 39.2	.2877	15 23.7	6.54
	27	.081	.7235	.0500	5.54	5 37.4	.2884	15 19.7	6.45
	28	.088	.7227	.0516	5.56	5 35.5	.2890	15 15.8	6.37
	29	.095	.7219	.0531	5.58	5 33.6	.2896	15 11.8	6.28
	30	+0.102	−0.7211	+0.0547	5.59	5 31.7	1.2903	15 7.9	−6.19
Mai	1	.110	.7202	.0562	5.61	5 29.9	.2909	15 4.0	6.10
	2	.117	.7193	.0578	5.63	5 28.0	.2915	15 0.1	6.01
	3	.125	.7184	.0593	5.65	5 26.1	.2922	14 56.2	5.91
	4	.132	.7174	.0608	5.67	5 24.1	.2928	14 52.4	5.82
	5	.140	.7165	.0624	5.69	5 22.2	.2934	14 48.5	5.72
	6	.148	.7155	.0639	5.71	5 20.3	.2941	14 44.7	5.62
	7	.156	.7145	.0654	5.73	5 18.3	.2947	14 40.9	5.52
	8	.164	.7134	.0669	5.75	5 16.4	.2953	14 37.0	5.42
	9	.172	.7123	.0684	5.77	5 14.4	.2959	14 33.2	5.32
	10	+0.180	−0.7112	+0.0699	5.79	5 12.5	1.2965	14 29.4	−5.21
	11	.188	.7101	.0714	5.81	5 10.5	.2971	14 25.7	5.11
	12	.197	.7089	.0729	5.84	5 8.5	.2977	14 21.9	5.00
	13	.205	.7078	.0744	5.86	5 6.5	.2983	14 18.1	4.89
	14	.213	.7066	.0758	5.88	5 4.4	.2989	14 14.4	4.78
	15	.222	.7054	.0773	5.91	5 2.4	.2995	14 10.6	4.67
	16	.231	.7042	.0787	5.93	5 0.4	.3001	14 6.9	4.55
	17	.239	.7030	.0801	5.96	4 58.4	.3006	14 3.2	4.44
	18	.248	.7017	.0814	5.98	4 56.4	.3012	13 59.5	4.33
	19	.257	.7005	.0828	6.01	4 54.3	.3017	13 55.8	4.21

1832

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	20	+0s.266	−0.6992	+0.0841	6″.03	4h52m.3	1.3022	13h52m.2	−4″.09
	21	.275	.6979	.0854	6.06	4 50.2	.3027	13 48.5	3.97
	22	.284	.6966	.0867	6.08	4 48.2	.3032	13 44.8	3.85
	23	.293	.6953	.0879	6.11	4 46.1	.3037	13 41.2	3.73
	24	.303	.6940	.0891	6.14	4 44.1	.3042	13 37.5	3.61
	25	.312	.6927	.0903	6.16	4 42.1	.3047	13 33.9	3.49
	26	.322	.6913	.0914	6.19	4 40.0	.3051	13 30.3	3.36
	27	.331	.6899	.0925	6.22	4 38.0	.3056	13 26.7	3.24
	28	.340	.6885	.0936	6.25	4 35.9	.3060	13 23.1	3.11
	29	.350	.6871	.0946	6.27	4 33.9	.3064	13 19.5	2.99
	30	+0.359	−0.6857	+0.0956	6.30	4 31.8	1.3068	13 15.9	−2.86
	31	.369	.6843	.0966	6.33	4 29.8	.3072	13 12.3	2.73
Juni	1	.379	.6828	.0975	6.36	4 27.7	.3076	13 8.7	2.60
	2	.389	.6814	.0984	6.39	4 25.7	.3079	13 5.2	2.47
	3	.399	.6799	.0992	6.42	4 23.6	.3082	13 1.6	2.34
	4	.408	.6785	.1000	6.45	4 21.6	.3086	12 58.1	2.21
	5	.418	.6770	.1007	6.48	4 19.5	.3089	12 54.5	2.08
	6	.428	.6756	.1014	6.51	4 17.5	.3091	12 51.0	1.95
	7	.438	.6741	.1021	6.54	4 15.4	.3094	12 47.4	1.82
	8	.449	.6726	.1027	6.57	4 13.4	.3096	12 43.9	1.69
	9	+0.459	−0.6711	+0.1033	6.60	4 11.3	1.3099	12 40.4	−1.55
	10	.469	.6696	.1038	6.63	4 9.3	.3101	12 36.8	1.42
	11	.479	.6680	.1043	6.66	4 7.2	.3103	12 33.3	1.28
	12	.489	.6665	.1047	6.69	4 5.2	.3104	12 29.8	1.15
	13	.499	.6650	.1051	6.72	4 3.2	.3106	12 26.3	1.02
	14	.509	.6635	.1054	6.75	4 1.1	.3107	12 22.8	0.88
	15	.520	.6620	.1057	6.78	3 59.1	.3108	12 19.3	0.75
	16	.530	.6605	.1060	6.81	3 57.1	.3109	12 15.8	0.61
	17	.540	.6590	.1062	6.84	3 55.1	.3110	12 12.3	0.48
	18	.551	.6574	.1063	6.87	3 53.1	.3111	12 8.8	0.34
	19	+0.561	−0.6559	+0.1064	6.90	3 51.1	1.3111	12 5.3	−0.20
	20	.571	.6544	.1065	6.93	3 49.1	.3111	12 1.8	−0.07
	21	.581	.6529	.1065	6.96	3 47.1	.3111	11 58.3	+0.07
	22	.592	.6513	.1064	6.99	3 45.1	.3111	11 54.8	0.20
	23	.602	.6498	.1063	7.02	3 43.1	.3111	11 51.3	0.34
	24	.612	.6483	.1062	7.05	3 41.2	.3110	11 47.8	0.47
	25	.622	.6468	.1060	7.08	3 39.2	.3109	11 44.3	0.61
	26	.633	.6452	.1057	7.11	3 37.3	.3108	11 40.8	0.74
	27	.643	.6437	.1054	7.14	3 35.3	.3107	11 37.3	0.88
	28	.653	.6422	.1051	7.17	3 33.4	.3106	11 33.8	1.01
	29	+0.663	−0.6407	+0.1047	7.20	3 31.5	1.3104	11 30.2	+1.15
	30	.674	.6391	.1043	7.24	3 29.6	.3103	11 26.7	1.28
Juli	1	.684	.6376	.1039	7.27	3 27.7	.3101	11 23.2	1.42
	2	.694	.6361	.1034	7.30	3 25.8	.3099	11 19.7	1.55
	3	.704	.6346	.1028	7.33	3 23.9	.3097	11 16.2	1.68
	4	.714	.6331	.1022	7.36	3 22.0	.3094	11 12.7	1.82
	5	.724	.6316	.1015	7.39	3 20.1	.3091	11 9.1	1.95
	6	.734	.6302	.1008	7.42	3 18.2	.3089	11 5.6	2.08
	7	.744	.6287	.1000	7.45	3 16.4	.3086	11 2.1	2.21
	8	.754	.6272	.0992	7.48	3 14.6	.3083	10 58.5	2.34

1832

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	9	+0.764	−0.6257	+0.0984	7.50	3^h12^m7	1.3079	10^h55^m0	+2.47
	10	.774	.6242	.0975	7.53	3 10.9	.3076	10 51.4	2.60
	11	.783	.6228	.0966	7.56	3 9.1	.3072	10 47.9	2.73
	12	.793	.6213	.0957	7.59	3 7.3	.3068	10 44.3	2.85
	13	.803	.6199	.0947	7.62	3 5.5	.3064	10 40.7	2.98
	14	.812	.6184	.0937	7.65	3 3.8	.3060	10 37.1	3.10
	15	.822	.6170	.0926	7.68	3 2.0	.3056	10 33.6	3.23
	16	.831	.6155	.0915	7.71	3 0.3	.3052	10 30.0	3.35
	17	.841	.6141	.0903	7.74	2 58.5	.3047	10 26.4	3.48
	18	.850	.6126	.0892	7.77	2 56.8	.3043	10 22.8	3.60
	19	+0.859	−0.6112	+0.0880	7.79	2 55.1	1.3038	10 19.1	+3.72
	20	.869	.6098	.0868	7.82	2 53.5	.3033	10 15.5	3.84
	21	.878	.6084	.0856	7.85	2 51.8	.3028	10 11.9	3.96
	22	.887	.6070	.0843	7.88	2 50.1	.3023	10 8.2	4.08
	23	.896	.6057	.0830	7.91	2 48.5	.3018	10 4.6	4.20
	24	.905	.6043	.0817	7.93	2 46.9	.3012	10 0.9	4.31
	25	.914	.6029	.0803	7.96	2 45.2	.3007	9 57.2	4.43
	26	.923	.6015	.0789	7.99	2 43.6	.3001	9 53.5	4.54
	27	.931	.6002	.0775	8.02	2 42.0	.2996	9 49.8	4.65
	28	.940	.5988	.0761	8.04	2 40.4	.2990	9 46.1	4.76
	29	+0.948	−0.5975	+0.0747	8.07	2 38.9	1.2984	9 42.4	+4.87
	30	.957	.5961	.0733	8.10	2 37.3	.2979	9 38.7	4.98
	31	.965	.5948	.0718	8.12	2 35.8	.2973	9 35.0	5.09
August	1	.973	.5935	.0703	8.15	2 34.3	.2967	9 31.2	5.19
	2	.982	.5922	.0688	8.18	2 32.8	.2960	9 27.5	5.30
	3	.990	.5909	.0673	8.20	2 31.3	.2954	9 23.7	5.40
	4	0.998	.5896	.0658	8.23	2 29.9	.2948	9 19.9	5.50
	5	1.006	.5883	.0643	8.25	2 28.5	.2942	9 16.1	5.60
	6	.014	.5871	.0628	8.28	2 27.0	.2936	9 12.3	5.70
	7	.021	.5859	.0612	8.31	2 25.6	.2930	9 8.5	5.80
	8	+1.029	−0.5846	+0.0597	8.33	2 24.3	1.2923	9 4.6	+5.89
	9	.037	.5833	.0581	8.36	2 22.9	.2917	9 0.8	5.99
	10	.044	.5820	.0566	8.38	2 21.5	.2911	8 56.9	6.08
	11	.052	.5807	.0550	8.41	2 20.2	.2904	8 53.1	6.17
	12	.059	.5795	.0535	8.43	2 18.9	.2898	8 49.2	6.26
	13	.066	.5782	.0520	8.46	2 17.6	.2892	8 45.3	6.34
	14	.073	.5770	.0505	8.48	2 16.3	.2886	8 41.4	6.43
	15	.080	.5758	.0490	8.51	2 15.0	.2879	8 37.5	6.51
	16	.087	.5746	.0475	8.53	2 13.8	.2873	8 33.5	6.59
	17	.094	.5734	.0460	8.55	2 12.6	.2867	8 29.6	6.67
	18	+1.101	−0.5722	+0.0446	8.58	2 11.4	1.2861	8 25.6	+6.75
	19	.108	.5710	.0431	8.60	2 10.2	.2855	8 21.7	6.83
	20	.115	.5698	.0417	8.63	2 9.0	.2849	8 17.7	6.90
	21	.121	.5686	.0403	8.65	2 7.9	.2843	8 13.7	6.97
	22	.128	.5673	.0390	8.68	2 6.7	.2838	8 9.7	7.04
	23	.135	.5661	.0376	8.70	2 5.6	.2832	8 5.6	7.11
	24	.141	.5649	.0363	8.72	2 4.5	.2826	8 1.6	7.18
	25	.147	.5637	.0350	8.75	2 3.5	.2821	7 57.6	7.24
	26	.154	.5626	.0337	8.77	2 2.4	.2816	7 53.5	7.30
	27	.160	.5614	.0324	8.79	2 1.4	.2810	7 49.4	7.36

1832

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	28	$+1^s.166$	−0.5602	+0.0312	8″.82	$2^h\ 0^m.4$	1.2805	$7^h45^m.3$	+7″.42
	29	.172	.5590	.0300	8.84	1 59.4	.2800	7 41.3	7.48
	30	.178	.5578	.0289	8.87	1 58.4	.2795	7 37.2	7.53
	31	.184	.5566	.0278	8.89	1 57.5	.2791	7 33.0	7.58
Septbr.	1	.190	.5554	.0267	8.91	1 56.6	.2786	7 28.9	7.63
	2	.196	.5542	.0257	8.94	1 55.7	.2782	7 24.8	7.68
	3	.202	.5530	.0247	8.96	1 54.8	.2778	7 20.6	7.72
	4	.207	.5518	.0237	8.99	1 53.9	.2774	7 16.5	7.76
	5	.213	.5506	.0228	9.01	1 53.0	.2770	7 12.3	7.80
	6	.219	.5494	.0220	9.03	1 52.1	.2766	7 8.1	7.84
	7	+1.224	−0.5482	+0.0212	9.06	1 51.3	1.2763	7 4.0	+7.88
	8	.230	.5470	.0204	9.08	1 50.6	.2759	6 59.8	7.91
	9	.235	.5458	.0197	9.11	1 49.9	.2756	6 55.6	7.95
	10	.241	.5446	.0190	9.13	1 49.1	.2753	6 51.4	7.98
	11	.246	.5433	.0184	9.16	1 48.4	.2751	6 47.1	8.00
	12	.251	.5421	.0178	9.18	1 47.7	.2748	6 42.9	8.03
	13	.257	.5408	.0173	9.21	1 47.0	.2746	6 38.7	8.05
	14	.262	.5395	.0168	9.23	1 46.3	.2744	6 34.4	8.07
	15	.267	.5382	.0164	9.26	1 45.6	.2742	6 30.2	8.09
	16	.273	.5369	.0160	9.29	1 45.0	.2741	6 26.0	8.11
	17	+1.278	−0.5356	+0.0157	9.31	1 44.4	1.2739	6 21.7	+8.12
	18	.283	.5343	.0154	9.34	1 43.8	.2738	6 17.4	8.13
	19	.289	.5329	.0152	9.37	1 43.2	.2738	6 13.2	8.14
	20	.294	.5316	.0151	9.39	1 42.6	.2737	6 8.9	8.14
	21	.299	.5302	.0150	9.42	1 42.1	.2737	6 4.6	8.15
	22	.304	.5289	.0150	9.45	1 41.6	.2736	6 0.4	8.15
	23	.310	.5275	.0150	9.47	1 41.1	.2736	5 56.1	8.15
	24	.315	.5261	.0151	9.50	1 40.6	.2737	5 51.8	8.14
	25	.320	.5247	.0152	9.53	1 40.1	.2737	5 47.5	8.14
	26	.325	.5232	.0154	9.56	1 39.6	.2738	5 43.3	8.13
	27	+1.331	−0.5217	+0.0156	9.59	1 39.2	1.2739	5 39.0	+8.12
	28	.336	.5202	.0159	9.62	1 38.7	.2740	5 34.7	8.11
	29	.341	.5187	.0163	9.65	1 38.3	.2742	5 30.4	8.09
	30	.347	.5172	.0167	9.68	1 37.9	.2744	5 26.1	8.07
Oktbr.	1	.352	.5156	.0172	9.71	1 37.5	.2746	5 21.8	8.05
	2	.357	.5140	.0177	9.74	1 37.2	.2748	5 17.6	8.03
	3	.363	.5124	.0183	9.78	1 36.8	.2750	5 13.3	8.01
	4	.368	.5108	.0189	9.81	1 36.5	.2753	5 9.0	7.98
	5	.374	.5091	.0196	9.84	1 36.1	.2756	5 4.8	7.95
	6	.379	.5074	.0203	9.88	1 35.8	.2759	5 0.5	7.92
	7	+1.385	−0.5057	+0.0211	9.91	1 35.5	1.2763	4 56.2	+7.88
	8	.391	.5040	.0220	9.94	1 35.2	.2766	4 52.0	7.85
	9	.396	.5023	.0229	9.98	1 34.9	.2770	4 47.7	7.81
	10	.402	.5005	.0238	10.02	1 34.6	.2774	4 43.5	7.77
	11	.408	.4987	.0248	10.05	1 34.4	.2778	4 39.2	7.72
	12	.414	.4968	.0258	10.09	1 34.1	.2782	4 35.0	7.68
	13	.420	.4949	.0269	10.13	1 33.9	.2787	4 30.8	7.63
	14	.426	.4930	.0280	10.16	1 33.6	.2791	4 26.5	7.58
	15	.432	.4911	.0291	10.20	1 33.4	.2796	4 22.3	7.52
	16	.438	.4892	.0303	10.24	1 33.2	.2801	4 18.1	7.47

1832

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	17	$+1^s.444$	−0.4872	+0.0315	10″.28	$1^h 33^m.0$	1.2806	$4^h 13^m.9$	+7″.41
	18	.450	.4852	.0327	10.32	1 32.7	.2812	4 9.7	7.35
	19	.457	.4831	.0340	10.36	1 32.5	.2817	4 5.5	7.29
	20	.463	.4810	.0353	10.41	1 32.3	.2823	4 1.4	7.22
	21	.469	.4789	.0367	10.45	1 32.2	.2828	3 57.2	7.16
	22	.476	.4768	.0381	10.49	1 32.0	.2834	3 53.0	7.09
	23	.483	.4746	.0395	10.54	1 31.8	.2840	3 48.9	7.02
	24	.490	.4724	.0409	10.58	1 31.6	.2846	3 44.7	6.94
	25	.496	.4701	.0424	10.62	1 31.4	.2852	3 40.6	6.87
	26	.503	.4678	.0439	10.67	1 31.2	.2858	3 36.5	6.79
	27	+1.510	−0.4655	+0 0454	10.72	1 31.1	1.2864	3 32.3	+6.71
	28	.517	.4632	.0469	10.76	1 30.9	.2871	3 28.2	6.63
	29	.525	.4608	.0484	10.81	1 30.7	.2877	3 24.1	6.54
	30	.532	.4584	.0499	10.86	1 30.6	.2883	3 20.1	6.46
	31	.539	.4560	.0515	10.91	1 30.4	.2890	3 16.0	6.37
Novbr.	1	.547	.4535	.0531	10.96	1 30.2	.2896	3 11.9	6.28
	2	.554	.4510	.0547	11.01	1 30.1	.2903	3 7.9	6.19
	3	.562	.4485	.0563	11.06	1 29.9	.2910	3 3.8	6.10
	4	.570	.4459	.0579	11.11	1 29.7	.2916	2 59.8	6.00
	5	.578	.4433	.0595	11.16	1 29.5	.2923	2 55.8	5.90
	6	+1.586	−0.4406	+0.0611	11.21	1 29.3	1.2929	2 51.7	+5.80
	7	.594	.4380	.0627	11.27	1 29.1	.2936	2 47.7	5.70
	8	.602	.4353	.0643	11.32	1 28.9	.2942	2 43.7	5.60
	9	.610	.4326	.0659	11.37	1 28.7	.2949	2 39.8	5.49
	10	.619	.4299	.0675	11.43	1 28.5	.2955	2 35.8	5.39
	11	.627	.4272	.0691	11.49	1 28.3	.2962	2 31.8	5.28
	12	.636	.4244	.0706	11.54	1 28.1	.2968	2 27.9	5.17
	13	.644	.4216	.0722	11.60	1 27.9	.2974	2 23.9	5.06
	14	.653	.4187	.0737	11.66	1 27.7	.2980	2 20.0	4.94
	15	.662	.4158	.0752	11.71	1 27.5	.2987	2 16.1	4.83
	16	+1.671	−0.4129	+0.0767	11.77	1 27.3	1.2993	2 12.1	+4.71
	17	.680	.4100	.0782	11.83	1 27.0	.2999	2 8.2	4.59
	18	.689	.4071	.0796	11.89	1 26.8	.3004	2 4.3	4.48
	19	.698	.4041	.0811	11.95	1 26.5	.3010	2 0.5	4.35
	20	.707	.4011	.0825	12.01	1 26.3	.3016	1 56.6	4.23
	21	.717	.3981	.0839	12.07	1 26.0	.3022	1 52.7	4.11
	22	.726	.3950	.0853	12.13	1 25.7	.3027	1 48.8	3.98
	23	.736	.3919	.0866	12.19	1 25.5	.3032	1 45.0	3.86
	24	.746	.3888	.0879	12.26	1 25.2	.3038	1 41.1	3.73
	25	.755	.3857	.0892	12.32	1 24.9	.3043	1 37.3	3.60
	26	+1.765	−0.3826	+0.0904	12.38	1 24.6	1.3048	1 33.5	+3.47
	27	.775	.3795	.0916	12.44	1 24.3	.3052	1 29.7	3.34
	28	.785	.3763	.0928	12.51	1 24.0	.3057	1 25.8	3.21
	29	.795	.3732	.0939	12.57	1 23.6	.3062	1 22.0	3.08
	30	.805	.3700	.0950	12.63	1 23.3	.3066	1 18.2	2.94
Dezbr.	1	.816	.3668	.0960	12.70	1 23.0	.3070	1 14.4	2.81
	2	.826	.3636	.0970	12.76	1 22.6	.3074	1 10.6	2.67
	3	.836	.3604	.0979	12.83	1 22.3	.3078	1 6.8	2.53
	4	.846	.3571	.0988	12.89	1 21 9	.3081	1 3.1	2.40
	5	.857	.3539	.0997	12.96	1 21.5	.3084	0 59.3	2.26

1832

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	6	+1s.867	−0.3506	+0.1005	13″.02	1h21m.1	1.3088	0h55m.5	+2″.12
	7	.878	.3474	.1013	13.09	1 20.8	.3091	0 51.7	1.98
	8	.889	.3441	.1020	13.15	1 20.4	.3093	0 48.0	1.84
	9	.899	.3409	.1027	13.22	1 19.9	.3096	0 44.2	1.70
	10	.910	.3376	.1033	13.28	1 19.5	.3098	0 40.4	1.55
	11	.921	.3343	.1038	13.35	1 19.1	.3101	0 36.7	1.41
	12	.931	.3310	.1043	13.41	1 18.7	.3103	0 32.9	1.27
	13	.942	.3277	.1048	13.48	1 18.3	.3104	0 29.2	1.13
	14	.953	.3245	.1052	13.55	1 17.8	.3106	0 25.5	0.98
	15	.964	.3212	.1056	13.61	1 17.4	.3107	0 21.7	0.84
	16	+1.975	−0.3180	+0.1059	13.68	1 16.9	1.3109	0 18.0	+0.70
	17	.986	.3147	.1061	13.74	1 16.4	.3110	0 14.2	0.55
	18	1.997	.3115	.1063	13.81	1 16.0	.3110	0 10.5	0.41
	19	2.007	.3082	.1064	13.87	1 15.5	.3111	0 6.8	0.26
	20	.018	.3050	.1064	13.94	1 15.0	.3111	0 3.0	+0.12
	21	.029	.3017	.1064	14.00	1 14.5	.3111	23 59.3	−0.03
	22	.040	.2985	.1064	14.07	1 14.0	.3111	23 55.5	0.17
	23	.051	.2952	.1063	14.13	1 13.5	.3111	23 51.8	0.32
	24	.062	.2920	.1062	14.20	1 13.0	.3110	23 48.1	0.46
	25	.073	.2888	.1060	14.26	1 12.5	.3109	23 44.3	0.61
	26	+2.084	−0.2856	+0.1058	14.33	1 12.0	1.3108	23 40.6	−0.75
	27	.095	.2824	.1055	14.39	1 11.4	.3107	23 36.8	0.90
	28	.106	.2792	.1051	14.45	1 10.9	.3106	23 33.1	1.04
	29	.117	.2760	.1047	14.52	1 10.4	.3104	23 29.3	1.18
	30	.127	.2729	.1042	14.58	1 9.8	.3102	23 25.6	1.33
	31	.138	.2698	.1037	14.64	1 9.3	.3100	23 21.8	1.47

1833

Januar	1	−0s.922	−0.6305	+0.1031	7″.41	9h36m.5	1.3098	23h18m.1	−1″.61
	2	.911	.6338	.1024	7.34	9 35.6	.3095	23 14.3	1.75
	3	.901	.6371	.1017	7.28	9 34.7	.3092	23 10.5	1.89
	4	.890	.6403	.1010	7.21	9 33.9	.3090	23 6.7	2.03
	5	.880	.6436	.1002	7.15	9 33.0	.3086	23 3.0	2.17
	6	.869	.6469	.0994	7.08	9 32.2	.3083	22 59.2	2.31
	7	.858	.6502	.0985	7.01	9 31.3	.3080	22 55.4	2.45
	8	.848	.6534	.0976	6.95	9 30.5	.3076	22 51.6	2.59
	9	.838	.6567	.0966	6.88	9 29.6	.3072	22 47.8	2.73
	10	.827	.6600	.0956	6.82	9 28.8	.3068	22 44.0	2.86
	11	−0.817	−0.6633	+0.0945	6.75	9 27.9	1.3064	22 40.1	−3.00
	12	.807	.6665	.0934	6.69	9 27.1	.3060	22 36.3	3.13
	13	.797	.6698	.0923	6.62	9 26.3	.3055	22 32.5	3.27
	14	.787	.6730	.0911	6.56	9 25.5	.3050	22 28.7	3.40
	15	.777	.6763	.0899	6.49	9 24.7	.3045	22 24.8	3.53
	16	.767	.6795	.0886	6.43	9 24.0	.3040	22 21.0	3.66
	17	.757	.6827	.0873	6.36	9 23.2	.3035	22 17.1	3.79
	18	.748	.6859	.0860	6.30	9 22.4	.3030	22 13.2	3.92
	19	.738	.6891	.0847	6.23	9 21.6	.3025	22 9.3	4.04
	20	.728	.6923	.0833	6.17	9 20.9	.3019	22 5.4	4.17

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	21	$-0^s.719$	−0.6955	+0.0819	6″.11	$9^h 20^m.1$	1.3013	$22^h 1^m.5$	−4″.29
	22	.710	.6987	.0804	6.04	9 19.4	.3008	21 57.6	4.41
	23	.700	.7019	.0790	5.98	9 18.6	.3002	21 53.7	4.53
	24	.691	.7050	.0775	5.92	9 17.9	.2996	21 49.8	4.65
	25	.682	.7081	.0760	5.85	9 17.2	.2990	21 45.9	4.77
	26	.673	.7112	.0745	5.79	9 16.5	.2984	21 41.9	4.89
	27	.664	.7143	.0730	5.73	9 15.8	.2977	21 37.9	5.00
	28	.655	.7173	.0714	5.67	9 15.1	.2971	21 34.0	5.12
	29	.647	.7204	.0698	5.61	9 14.4	.2965	21 30.0	5.23
	30	.638	.7234	.0682	5.55	9 13.7	.2958	21 26.0	5.34
	31	−0.630	−0.7264	+0.0666	5.49	9 13.0	1.2952	21 22.0	−5.45
Februar	1	.621	.7293	.0650	5.43	9 12.3	.2945	21 18.0	5.55
	2	.613	.7322	.0633	5.37	9 11.6	.2939	21 14.0	5.66
	3	.604	.7351	.0617	5.31	9 11.0	.2932	21 10.0	5.76
	4	.596	.7380	.0601	5.25	9 10.3	.2925	21 5.9	5.86
	5	.588	.7408	.0585	5.20	9 9.6	.2919	21 1.9	5.96
	6	.581	.7437	.0569	5.14	9 9.0	.2912	20 57.8	6.06
	7	.573	.7465	.0553	5.08	9 8.3	.2905	20 53.7	6.15
	8	.565	.7493	.0537	5.03	9 7.7	.2899	20 49.6	6.25
	9	.557	.7520	.0521	4.97	9 7.0	.2892	20 45.5	6.34
	10	−0.550	−0.7547	+0.0505	4.92	9 6.4	1.2886	20 41.4	−6.43
	11	.542	.7573	.0490	4.86	9 5.7	.2879	20 37.3	6.51
	12	.535	.7600	.0474	4.81	9 5.1	.2873	20 33.2	6.60
	13	.528	.7626	.0459	4.76	9 4.4	.2866	20 29.0	6.68
	14	.521	.7652	.0443	4.71	9 3.8	.2860	20 24.9	6.76
	15	.514	.7678	.0428	4.66	9 3.1	.2854	20 20.7	6.84
	16	.507	.7703	.0413	4.61	9 2.4	.2848	20 16.6	6.92
	17	.500	.7728	.0399	4.56	9 1.7	.2842	20 12.4	6.99
	18	.493	.7753	.0385	4.51	9 1.1	.2836	20 8.2	7.07
	19	.486	.7777	.0371	4.46	9 0.4	.2830	20 4.0	7.14
	20	−0.479	−0.7801	+0.0357	4.41	8 59.7	1.2824	19 59.8	−7.20
	21	.473	.7825	.0344	4.36	8 59.0	.2818	19 55.5	7.27
	22	.466	.7848	.0331	4.32	8 58.3	.2813	19 51.3	7.33
	23	.460	.7870	.0318	4.27	8 57.5	.2807	19 47.1	7.40
	24	.454	.7893	.0305	4.22	8 56.8	.2802	19 42.8	7.46
	25	.447	.7915	.0293	4.18	8 56.0	.2797	19 38.6	7.51
	26	.441	.7937	.0281	4.14	8 55.2	.2792	19 34.3	7.57
	27	.435	.7959	.0270	4.09	8 54.4	.2787	19 30.0	7.62
	28	.429	.7980	.0259	4.05	8 53.6	.2783	19 25.8	7.67
März	1	.423	.8001	.0249	4.01	8 52.8	.2778	19 21.5	7.71
	2	−0.417	−0.8021	+0.0239	3.97	8 51.9	1.2774	19 17.2	−7.76
	3	.411	.8041	.0230	3.93	8 51.1	.2770	19 12.9	7.80
	4	.405	.8061	.0221	3.89	8 50.2	.2767	19 8.6	7.84
	5	.400	.8080	.0212	3.85	8 49.2	.2763	19 4.3	7.88
	6	.394	.8099	.0204	3.81	8 48.2	.2759	19 0.0	7.91
	7	.388	.8118	.0196	3.77	8 47.2	.2756	18 55.7	7.95
	8	.383	.8136	.0189	3.74	8 46.2	.2753	18 51.3	7.98
	9	.377	.8154	.0183	3.70	8 45.1	.2751	18 47.0	8.00
	10	.371	.8172	.0177	3.67	8 44.0	.2748	18 42.7	8.03
	11	.366	.8189	.0172	3.63	8 42.9	.2746	18 38.4	8.05

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	12	$-0^s.360$	−0.8206	+0.0167	3″.60	$8^h41^m.7$	1.2744	$18^h34^m.1$	−8″.07
	13	.355	.8223	.0163	3.56	8 40.5	.2742	18 29.7	8.09
	14	.349	.8239	.0160	3.53	8 39.3	.2741	18 25.4	8.11
	15	.344	.8254	.0157	3.50	8 38.0	.2739	18 21.1	8.12
	16	.338	.8270	.0155	3.47	8 36.7	.2738	18 16.7	8.13
	17	.333	.8285	.0153	3.44	8 35.3	.2737	18 12.4	8.14
	18	.327	.8300	.0151	3.41	8 33.9	.2737	18 8.1	8.14
	19	.322	.8315	.0150	3.38	8 32.4	.2736	18 3.7	8.15
	20	.317	.8329	.0150	3.35	8 30.8	.2736	17 59.4	8.15
	21	.311	.8343	.0150	3.32	8 29.2	.2736	17 55.1	8.15
	22	−0.306	−0.8357	+0.0151	3.30	8 27.5	1.2737	17 50.8	−8.14
	23	.301	.8370	.0152	3.27	8 25.8	.2737	17 46.4	8.14
	24	.295	.8383	.0154	3.24	8 24.0	.2738	17 42.1	8.13
	25	.290	.8395	.0157	3.22	8 22.2	.2739	17 37.8	8.12
	26	.284	.8407	.0160	3.19	8 20.3	.2741	17 33.5	8.10
	27	.279	.8419	.0164	3.17	8 18.4	.2743	17 29.2	8.09
	28	.273	.8431	.0168	3.15	8 16.4	.2744	17 24.9	8.07
	29	.268	.8442	.0173	3.12	8 14.3	.2746	17 20.6	8.05
	30	.262	.8453	.0178	3.10	8 12.1	.2748	17 16.4	8.02
	31	.257	.8463	.0184	3.08	8 9.9	.2751	17 12.1	8.00
April	1	−0.251	−0.8473	+0.0190	3.06	8 7.6	1.2754	17 7.8	−7.97
	2	.245	.8483	.0197	3.04	8 5.2	.2757	17 3.6	7.94
	3	.240	.8492	.0205	3.02	8 2.8	.2760	16 59.3	7.91
	4	.234	.8501	.0213	3.00	8 0.4	.2763	16 55.1	7.87
	5	.228	.8510	.0221	2.99	7 57.8	.2767	16 50.9	7.84
	6	.222	.8518	.0230	2.97	7 55.1	.2771	16 46.7	7.80
	7	.216	.8526	.0239	2.95	7 52.4	.2775	16 42.4	7.76
	8	.210	.8534	.0249	2.94	7 49.6	.2779	16 38.2	7.71
	9	.204	.8541	.0259	2.93	7 46.8	.2783	16 34.1	7.66
	10	.198	.8548	.0270	2.91	7 43.9	.2787	16 29.9	7.61
	11	−0.192	−0.8555	+0.0281	2.90	7 40.9	1.2792	16 25.7	−7.56
	12	.186	.8561	.0292	2.89	7 37.9	.2797	16 21.5	7.51
	13	.180	.8567	.0304	2.87	7 34.8	.2802	16 17.4	7.46
	14	.174	.8572	.0316	2.86	7 31.6	.2807	16 13.3	7.40
	15	.167	.8577	.0328	2.85	7 28.3	.2812	16 9.2	7.34
	16	.161	.8581	.0341	2.84	7 24.9	.2817	16 5.0	7.28
	17	.154	.8585	.0354	2.84	7 21.5	.2823	16 0.9	7.22
	18	.148	.8589	.0367	2.83	7 18.0	.2828	15 56.9	7.15
	19	.141	.8593	.0380	2.82	7 14.5	.2834	15 52.8	7.08
	20	.134	.8596	.0394	2.82	7 10.9	.2840	15 48.7	7.01
	21	−0.127	−0.8599	+0.0408	2.81	7 7.2	1.2845	15 44.7	−6.94
	22	.120	.8601	.0422	2.81	7 3.5	.2851	15 40.7	6.87
	23	.113	.8603	.0437	2.80	6 59.7	.2857	15 36.6	6.79
	24	.106	.8604	.0452	2.80	6 55.8	.2864	15 32.6	6.72
	25	.099	.8605	.0467	2.80	6 51.9	.2870	15 28.6	6.64
	26	.092	.8605	.0482	2.80	6 47.9	.2876	15 24.7	6.56
	27	.085	.8605	.0498	2.80	6 43.9	.2882	15 20.7	6.47
	28	.077	.8604	.0513	2.80	6 39.9	.2889	15 16.7	6.39
	29	.070	.8603	.0528	2.80	6 35.8	.2895	15 12.8	6.30
	30	.062	.8602	.0543	2.80	6 31.7	.2901	15 8.9	6.21

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	1	$-0^s.055$	−0.8600	+0.0559	2″.81	$6^h 27^m.5$	1.2908	$15^h 5^m.0$	−6″.12
	2	.047	.8598	.0574	2.81	6 23.3	.2914	15 1.1	6.03
	3	.039	.8595	.0589	2.82	6 19.1	.2920	14 57.2	5.94
	4	.031	.8592	.0604	2.82	6 14.9	.2927	14 53.3	5.84
	5	.023	.8589	.0620	2.83	6 10.6	.2933	14 49.5	5.75
	6	.015	.8585	.0635	2.84	6 6.3	.2939	14 45.6	5.65
	7	−0.007	.8580	.0650	2.85	6 2.0	.2945	14 41.8	5.55
	8	+0.001	.8575	.0665	2.86	5 57.7	.2951	14 38.0	5.45
	9	.009	.8569	.0681	2.87	5 53.3	.2958	14 34.2	5.34
	10	.018	.8562	.0696	2.88	5 49.0	.2964	14 30.4	5.24
	11	+0.026	−0.8555	+0.0711	2.90	5 44.6	1.2970	14 26.6	−5.13
	12	.035	.8548	.0726	2.91	5 40.3	.2976	14 22.8	5.03
	13	.044	.8541	.0741	2.93	5 35.9	.2982	14 19.0	4.92
	14	.052	.8533	.0755	2.94	5 31.5	.2988	14 15.3	4.80
	15	.061	.8525	.0769	2.96	5 27.1	.2993	14 11.6	4.69
	16	.070	.8516	.0783	2.98	5 22.8	.2999	14 7.8	4.58
	17	.079	.8507	.0797	2.99	5 18.4	.3005	14 4.1	4.47
	18	.088	.8497	.0810	3.01	5 14.1	.3010	14 0.4	4.35
	19	.097	.8487	.0824	3.03	5 9.8	.3016	13 56.7	4.24
	20	.107	.8476	.0837	3.06	5 5.5	.3021	13 53.0	4.12
	21	+0.116	−0.8465	+0.0850	3.08	5 1.2	1.3026	13 49.4	−4.00
	22	.125	.8453	.0863	3.10	4 57.0	.3031	13 45.7	3.88
	23	.135	.8441	.0876	3.13	4 52.8	.3036	13 42.1	3.76
	24	.144	.8429	.0888	3.15	4 48.6	.3041	13 38.4	3.64
	25	.154	.8416	.0900	3.18	4 44.4	.3046	13 34.8	3.52
	26	.164	.8403	.0911	3.20	4 40.3	.3050	13 31.2	3.39
	27	.174	.8389	.0922	3.23	4 36.2	.3055	13 27.6	3.27
	28	.183	.8375	.0933	3.26	4 32.1	.3059	13 24.0	3.14
	29	.193	.8361	.0944	3.29	4 28.1	.3063	13 20.3	3.02
	30	.203	.8346	.0954	3.32	4 24.1	.3067	13 16.8	2.89
	31	+0.213	−0.8331	+0.0964	3.35	4 20.1	1.3071	13 13.2	−2.76
Juni	1	.223	.8315	.0973	3.38	4 16.2	.3075	13 9.6	2.63
	2	.233	.8299	.0982	3.41	4 12.3	.3078	13 6.0	2.51
	3	.243	.8283	.0990	3.44	4 8.5	.3082	13 2.5	2.38
	4	.254	.8267	.0998	3.47	4 4.7	.3085	12 58.9	2.25
	5	.264	.8250	.1006	3.51	4 0.9	.3088	12 55.4	2.11
	6	.274	.8233	.1013	3.54	3 57.1	.3091	12 51.8	1.98
	7	.285	.8215	.1020	3.58	3 53.4	.3093	12 48.3	1.85
	8	.295	.8197	.1026	3.62	3 49.7	.3096	12 44.8	1.72
	9	.305	.8179	.1032	3.65	3 46.1	.3098	12 41.2	1.58
	10	+0.316	−0.8161	+0.1037	3.69	3 42.5	1.3100	12 37.7	−1.45
	11	.326	.8142	.1042	3.73	3 39.0	.3102	12 34.2	1.32
	12	.337	.8123	.1046	3.76	3 35.5	.3104	12 30.7	1.18
	13	.347	.8104	.1050	3.80	3 32.0	.3105	12 27.2	1.05
	14	.358	.8085	.1053	3.84	3 28.6	.3107	12 23.6	0.91
	15	.368	.8065	.1056	3.88	3 25.3	.3108	12 20.1	0.78
	16	.379	.8046	.1059	3.92	3 21.9	.3109	12 16.6	0.64
	17	.389	.8026	.1061	3.96	3 18.6	.3110	12 13.1	0.51
	18	.400	.8006	.1063	4.00	3 15.4	.3110	12 9.6	0.37
	19	.410	.7986	.1064	4.04	3 12.2	.3111	12 6.1	0.24

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	20	+0.421	−0.7966	+0.1065	4″.08	3^h 9.0	1.3111	12^h 2.6	−0″.10
	21	.432	.7945	.1065	4.12	3 5.9	.3111	11 59.1	+0.03
	22	.442	.7924	.1065	4.16	3 2.8	.3111	11 55.6	0.17
	23	.453	.7903	.1064	4.20	2 59.7	.3111	11 52.1	0.30
	24	.463	.7882	.1063	4.25	2 56.7	.3110	11 48.6	0.44
	25	.474	.7861	.1061	4.29	2 53.7	.3109	11 45.1	0.57
	26	.485	.7840	.1058	4.33	2 50.8	.3108	11 41.6	0.71
	27	.495	.7818	.1055	4.37	2 47.9	.3107	11 38.1	0.84
	28	.506	.7797	.1052	4.42	2 45.0	.3106	11 34.6	0.98
	29	.516	.7775	.1048	4.46	2 42.2	.3105	11 31.1	1.11
	30	+0.527	−0.7753	+0.1044	4.51	2 39.4	1.3103	11 27.6	+1.25
Juli	1	.537	.7731	.1039	4.55	2 36.7	.3101	11 24.1	1.38
	2	.548	.7709	.1034	4.59	2 33.9	.3099	11 20.6	1.52
	3	.558	.7687	.1029	4.64	2 31.3	.3097	11 17.0	1.65
	4	.568	.7665	.1023	4.68	2 28.6	.3095	11 13.5	1.78
	5	.579	.7643	.1016	4.73	2 26.0	.3092	11 10.0	1.92
	6	.589	.7621	.1009	4.77	2 23.5	.3089	11 6.5	2.05
	7	.599	.7599	.1002	4.81	2 20.9	.3086	11 2.9	2.18
	8	.610	.7577	.0994	4.86	2 18.4	.3083	10 59.4	2.31
	9	.620	.7555	.0986	4.90	2 15.9	.3080	10 55.8	2.44
	10	+0.630	−0.7533	+0.0977	4.95	2 13.5	1.3077	10 52.3	+2.57
	11	.640	.7511	.0968	4.99	2 11.1	.3073	10 48.7	2.69
	12	.650	.7488	.0959	5.03	2 8.7	.3069	10 45.2	2.82
	13	.660	.7466	.0949	5.08	2 6.3	.3065	10 41.6	2.95
	14	.670	.7444	.0939	5.12	2 4.0	.3061	10 38.0	3.07
	15	.680	.7422	.0928	5.17	2 1.8	.3057	10 34.4	3.20
	16	.689	.7400	.0917	5.21	1 59.5	.3053	10 30.8	3.32
	17	.699	.7378	.0906	5.26	1 57.3	.3049	10 27.2	3.45
	18	.709	.7356	.0895	5.30	1 55.1	.3044	10 23.6	3.57
	19	.718	.7334	.0883	5.35	1 53.0	.3039	10 20.0	3.69
	20	+0.728	−0.7313	+0.0871	5.39	1 50.9	1.3035	10 16.4	+3.81
	21	.738	.7291	.0859	5.43	1 48.8	.3030	10 12.8	3.93
	22	.747	.7269	.0846	5.48	1 46.7	.3025	10 9.1	4.05
	23	.756	.7247	.0833	5.52	1 44.7	.3019	10 5.5	4.17
	24	.766	.7225	.0820	5.56	1 42.7	.3014	10 1.8	4.29
	25	.775	.7203	.0806	5.61	1 40.7	.3008	9 58.1	4.40
	26	.784	.7181	.0792	5.65	1 38.8	.3003	9 54.4	4.51
	27	.793	.7159	.0778	5.70	1 36.9	.2997	9 50.7	4.63
	28	.802	.7137	.0764	5.74	1 35.0	.2992	9 47.0	4.74
	29	.811	.7116	.0750	5.78	1 33.1	.2986	9 43.3	4.85
	30	+0.819	−0.7095	+0.0736	5.83	1 31.3	1.2980	9 39.6	+4.95
	31	.828	.7074	.0721	5.87	1 29.5	.2974	9 35.9	5.06
August	1	.837	.7053	.0706	5.91	1 27.7	.2968	9 32.1	5.17
	2	.845	.7032	.0691	5.95	1 25.9	.2962	9 28.4	5.27
	3	.854	.7011	.0676	5.99	1 24.2	.2956	9 24.6	5.38
	4	.862	.6990	.0661	6.03	1 22.5	.2950	9 20.8	5.48
	5	.870	.6969	.0645	6.08	1 20.9	.2944	9 17.0	5.58
	6	.879	.6949	.0630	6.12	1 19.2	.2937	9 13.2	5.68
	7	.887	.6928	.0615	6.16	1 17.6	.2931	9 9.4	5.77
	8	.895	.6908	.0600	6.20	1 16.1	.2925	9 5.6	5.87

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	9	+0^s.903	−0.6888	+0.0584	6″.24	$1^h14^m.5$	1.2919	$9^h\ 1^m.7$	+5″.96
	10	.911	.6868	.0569	6.28	1 13.0	.2912	8 57.9	6.06
	11	.918	.6848	.0554	6.32	1 11.5	.2906	8 54.0	6.15
	12	.926	.6828	.0539	6.36	1 10.0	.2900	8 50.1	6.24
	13	.934	.6808	.0524	6.40	1 8.6	.2893	8 46.2	6.32
	14	.941	.6789	.0509	6.44	1 7.2	.2887	8 42.3	6.41
	15	.949	.6769	.0494	6.48	1 5.8	.2881	8 38.4	6.49
	16	.956	.6750	.0479	6.52	1 4.4	.2875	8 34.5	6.57
	17	.963	.6730	.0464	6.56	1 3.1	.2869	8 30.5	6.65
	18	.970	.6711	.0450	6.59	1 1.8	.2863	8 26.6	6.73
	19	+0.978	−0.6692	+0.0435	6.63	1 0.5	1.2857	8 22.6	+6.81
	20	.985	.6673	.0421	6.67	0 59.3	.2851	8 18.6	6.88
	21	.992	.6654	.0407	6.71	0 58.0	.2845	8 14.6	6.95
	22	0.999	.6636	.0393	6.75	0 56.8	.2839	8 10.6	7.02
	23	1.005	.6617	.0379	6.78	0 55.7	.2833	8 6.6	7.09
	24	.012	.6599	.0366	6.82	0 54.5	.2828	8 2.6	7.16
	25	.019	.6580	.0353	6.86	0 53.4	.2822	7 58.5	7.23
	26	.025	.6562	.0340	6.89	0 52.4	.2817	7 54.5	7.29
	27	.032	.6544	.0327	6.93	0 51.3	.2812	7 50.4	7.35
	28	.038	.6526	.0315	6.97	0 50.3	.2806	7 46.3	7.41
	29	+1.045	−0.6508	+0.0303	7.00	0 49.3	1.2801	7 42.2	+7.46
	30	.051	.6490	.0292	7.04	0 48.3	.2797	7 38.1	7.52
	31	.057	.6472	.0281	7.07	0 47.4	.2792	7 34.0	7.57
Septbr.	1	.064	.6455	.0270	7.11	0 46.4	.2787	7 29.9	7.62
	2	.070	.6437	.0259	7.14	0 45.5	.2783	7 25.8	7.66
	3	.076	.6420	.0249	7.18	0 44.6	.2779	7 21.6	7.71
	4	.082	.6402	.0239	7.21	0 43.8	.2775	7 17.5	7.75
	5	.088	.6385	.0230	7.25	0 43.0	.2771	7 13.3	7.79
	6	.094	.6367	.0221	7.28	0 42.2	.2767	7 9.1	7.83
	7	.100	.6350	.0213	7.32	0 41.4	.2763	7 5.0	7.87
	8	+1.106	−0.6333	+0.0205	7.35	0 40.7	1.2760	7 0.8	+7.90
	9	.111	.6316	.0198	7.39	0 40.0	.2757	6 56.6	7.94
	10	.117	.6298	.0191	7.42	0 39.3	.2754	6 52.4	7.97
	11	.123	.6281	.0185	7.46	0 38.6	.2751	6 48.2	8.00
	12	.129	.6264	.0179	7.49	0 38.0	.2749	6 43.9	8.02
	13	.134	.6247	.0174	7.53	0 37.3	.2747	6 39.7	8.05
	14	.140	.6230	.0169	7.56	0 36.8	.2745	6 35.5	8.07
	15	.146	.6213	.0165	7.59	0 36.2	.2743	6 31.2	8.09
	16	.151	.6196	.0161	7.63	0 35.6	.2741	6 27.0	8.10
	17	.157	.6179	.0158	7.66	0 35.1	.2740	6 22.7	8.12
	18	+1.163	−0.6162	+0.0156	7.70	0 34.6	1.2739	6 18.5	+8.13
	19	.168	.6145	.0154	7.73	0 34.2	.2738	6 14.2	8.14
	20	.174	.6128	.0152	7.77	0 33.7	.2737	6 9.9	8.14
	21	.179	.6110	.0151	7.80	0 33.3	.2737	6 5.7	8.15
	22	.185	.6093	.0150	7.84	0 32.8	.2736	6 1.4	8.15
	23	.190	.6075	.0150	7.87	0 32.4	.2736	5 57.1	8.15
	24	.196	.6058	.0151	7.91	0 32.1	.2737	5 52.9	8.15
	25	.201	.6040	.0152	7.94	0 31.7	.2737	5 48.6	8.14
	26	.207	.6023	.0154	7.98	0 31.4	.2738	5 44.3	8.13
	27	.213	.6005	.0156	8.01	0 31.1	.2739	5 40.0	8.12

1833

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	28	$+1^s.218$	−0.5987	+0.0159	8″.05	$0^h30^m.8$	1.2740	$5^h35^m.7$	+8″.11
	29	.224	.5969	.0162	8.08	0 30.5	.2742	5 31.4	8.10
	30	.230	.5951	.0166	8.12	0 30.3	.2743	5 27.2	8.08
Oktbr.	1	.235	.5932	.0171	8.16	0 30.1	.2745	5 22.9	8.06
	2	.241	.5914	.0176	8.19	0 29.9	.2747	5 18.6	8.04
	3	.247	.5895	.0182	8.23	0 29.7	.2750	5 14.3	8.01
	4	.252	.5877	.0188	8.27	0 29.5	.2752	5 10.1	7.98
	5	.258	.5858	.0195	8.30	0 29.4	.2755	5 5.8	7.95
	6	.264	.5839	.0202	8.34	0 29.2	.2758	5 1.5	7.92
	7	.270	.5820	.0210	8.38	0 29.1	.2762	4 57.3	7.89
	8	+1.276	−0.5801	+0.0218	8.42	0 29.0	1.2765	4 53.0	+7.85
	9	.282	.5781	.0227	8.46	0 28.9	.2769	4 48.8	7.82
	10	.288	.5762	.0236	8.50	0 28.9	.2773	4 44.5	7.78
	11	.294	.5742	.0245	8.54	0 28.8	.2777	4 40.3	7.73
	12	.300	.5722	.0255	8.58	0 28.7	.2781	4 36.0	7.69
	13	.307	.5701	.0266	8.62	0 28.7	.2786	4 31.8	7.64
	14	.313	.5681	.0277	8.66	0 28.7	.2790	4 27.6	7.59
	15	.319	.5660	.0288	8.70	0 28.7	.2795	4 23.3	7.54
	16	.326	.5639	.0300	8.74	0 28.7	.2800	4 19.1	7.48
	17	.332	.5617	.0312	8.79	0 28.7	.2805	4 14.9	7.42
	18	+1.339	−0.5596	+0.0324	8.83	0 28.8	1.2810	4 10.7	+7.36
	19	.345	.5574	.0337	8.87	0 28.8	.2816	4 6.5	7.30
	20	.352	.5552	.0350	8.92	0 28.8	.2821	4 2.4	7.24
	21	.359	.5530	.0363	8.96	0 28.9	.2827	3 58.2	7.17
	22	.366	.5507	.0377	9.01	0 28.9	.2833	3 54.0	7.10
	23	.373	.5484	.0391	9.06	0 29.0	.2838	3 49.9	7.03
	24	.380	.5460	.0405	9.10	0 29.1	.2844	3 45.7	6.96
	25	.387	.5436	.0420	9.15	0 29.1	.2851	3 41.6	6.88
	26	.394	.5412	.0435	9.20	0 29.2	.2857	3 37.4	6.81
	27	.401	.5388	.0450	9.25	0 29.3	.2863	3 33.3	6.73
	28	+1.409	−0.5364	+0.0465	9.30	0 29.4	1.2869	3 29.2	+6.65
	29	.416	.5339	.0481	9.35	0 29.5	.2875	3 25.1	6.56
	30	.424	.5314	.0495	9.40	0 29.6	.2882	3 21.1	6.48
	31	.432	.5288	.0511	9.45	0 29.6	.2888	3 17.0	6.39
Novbr.	1	.439	.5262	.0527	9.50	0 29.7	.2895	3 12.9	6.30
	2	.447	.5236	.0543	9.55	0 29.8	.2901	3 8.8	6.21
	3	.455	.5210	.0559	9.61	0 29.9	.2908	3 4.8	6.12
	4	.463	.5183	.0575	9.66	0 30.0	.2915	3 0.8	6.02
	5	.471	.5156	.0591	9.71	0 30.1	.2921	2 56.7	5.93
	6	.480	.5129	.0607	9.77	0 30.2	.2928	2 52.7	5.83
	7	+1.488	−0.5101	+0.0623	9.82	0 30.3	1.2934	2 48.7	+5.73
	8	.497	.5073	.0639	9.88	0 30.4	.2941	2 44.7	5.62
	9	.505	.5045	.0655	9.94	0 30.4	.2947	2 40.7	5.52
	10	.514	.5016	.0671	9.99	0 30.5	.2954	2 36.7	5.41
	11	.523	.4987	.0687	10.05	0 30.6	.2960	2 32.8	5.31
	12	.531	.4958	.0703	10.11	0 30.6	.2967	2 28.8	5.20
	13	.540	.4929	.0718	10.17	0 30.7	.2973	2 24.9	5.08
	14	.549	.4899	.0733	10.23	0 30.8	.2979	2 20.9	4.97
	15	.559	.4869	.0748	10.29	0 30.8	.2985	2 17.0	4.86
	16	.568	.4838	.0763	10.35	0 30.9	.2991	2 13.1	4.74

1833

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Novbr. 17	+1.577	−0.4807	+0.0778	10.41	$0^h30^m.9$	1.2997	$2^h\ 9^m.2$	+4.62
18	.587	.4776	.0792	10.48	0 30.9	.3003	2 5.3	4.50
19	.596	.4745	.0807	10.54	0 31.0	.3009	2 1.4	4.38
20	.606	.4713	.0821	10.60	0 31.0	.3015	1 57.5	4.26
21	.615	.4681	.0835	10.67	0 31.0	.3020	1 53.6	4.14
22	.625	.4648	.0849	10.73	0 31.0	.3026	1 49.8	4.01
23	.635	.4616	.0863	10.79	0 30.9	.3031	1 45.9	3.89
24	.645	.4583	.0876	10.86	0 30.9	.3036	1 42.1	3 76
25	.655	.4550	.0889	10.93	0 30.9	.3041	1 38.2	3.63
26	.665	.4517	.0901	10.99	0 30.8	.3046	1 34.4	3.50
27	+1.676	−0.4484	+0.0913	11.06	0 30.8	1.3051	1 30.6	+3.37
28	.686	.4450	.0925	11.13	0 30.7	.3056	1 26.8	3.24
29	.696	.4416	.0936	11.20	0 30.6	.3060	1 22.9	3.11
30	.707	.4382	.0947	11.26	0 30.6	.3065	1 19.1	2.97
Dezbr. 1	.717	.4348	.0958	11.33	0 30.5	.3069	1 15.3	2.84
2	.728	.4314	.0968	11.40	0 30.4	.3073	1 11.5	2.70
3	.738	.4280	.0977	11.47	0 30.3	.3077	1 7.7	2.57
4	.749	.4245	.0986	11.54	0 30.1	.3080	1 4.0	2.43
5	.760	.4210	.0995	11.61	0 30.0	.3084	1 0.2	2.29
6	.771	.4175	.1003	11.68	0 29.9	.3087	0 56.4	2.15
7	+1.781	−0.4140	+0.1011	11.75	0 29.7	1.3090	0 52.6	2.01
8	.792	.4105	.1018	11.82	0 29.5	.3093	0 48.9	1.87
9	.803	.4070	.1025	11.89	0 29.4	.3095	0 45.1	1.73
10	.814	.4034	.1031	11.96	0 29.2	.3098	0 41.4	1.59
11	.825	.3999	.1037	12.03	0 29.0	.3100	0 37.6	1.45
12	.836	.3963	.1042	12.11	0 28.8	.3102	0 33.9	1.30
13	.848	.3927	.1047	12.18	0 28.5	.3104	0 30.1	1.16
14	.859	.3891	.1051	12.25	0 28.3	.3106	0 26.4	1.02
15	.870	.3855	.1055	12.32	0 28.1	.3107	0 22.6	0.88
16	.881	.3819	.1058	12.39	0 27.8	.3108	0 18.9	0.73
17	+1.892	−0.3783	+0.1060	12.47	0 27.6	1.3109	0 15.2	+0.59
18	.903	.3747	.1062	12.54	0 27.3	.3110	0 11.4	0.44
19	.915	.3711	.1063	12.61	0 27.0	.3111	0 7.7	0.30
20	.926	.3675	.1064	12.68	0 26.7	.3111	0 3.9	0.15
21	.937	.3640	.1064	12.75	0 26.4	.3111	0 0.2	+0.01
22	.948	.3604	.1064	12.83	0 26.1	.3111	23 56.5	−0.14
23	.960	.3568	.1063	12.90	0 25.8	.3111	23 52.7	0.28
24	.971	.3532	.1062	12.97	0 25.5	.3110	23 49.0	0.43
25	.982	.3496	.1060	13.04	0 25.1	.3110	23 45.2	0.57
26	1.993	.3461	.1058	13.11	0 24.8	.3109	23 41.5	0.72
27	+2.005	−0.3425	+0.1055	13.18	0 24.4	1.3108	23 37.7	−0.86
28	.016	.3390	.1052	13.25	0 24.1	.3106	23 34.0	1.00
29	.027	.3354	.1048	13.33	0 23.7	.3105	23 30.2	1.15
30	.038	.3319	.1044	13.40	0 23.4	.3103	23 26.5	1.29
31	.049	.3284	.1040	13.47	0 23.0	.3101	23 22.7	1.43

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	$-1^s.011$	−0.6652	+0.1032	6″.71	$11^h14^m.2$	1.3098	$23^h19^m.0$	−1″.58
	2	1.000	.6689	.1026	6.64	11 14.3	.3096	23 15.2	1.72
	3	0.989	.6726	.1019	6.57	11 14.4	.3093	23 11.4	1.86
	4	.978	.6762	.1012	6.49	11 14.5	.3090	23 7.7	2.00
	5	.967	.6799	.1004	6.42	11 14.6	.3087	23 3.9	2.14
	6	.956	.6835	.0996	6.35	11 14.8	.3084	23 0.1	2.28
	7	.945	.6872	.0987	6.27	11 15.0	.3081	22 56.3	2.42
	8	.934	.6908	.0978	6.20	11 15.2	.3077	22 52.5	2.56
	9	.924	.6944	.0968	6.13	11 15.5	.3073	22 48.7	2.69
	10	.913	.6980	.0958	6.06	11 15.7	.3069	22 44.9	2.83
	11	−0.903	−0.7016	+0.0948	5.98	11 16.0	1.3065	22 41.1	−2.97
	12	.892	.7051	.0937	5.91	11 16.4	.3061	22 37.3	3.10
	13	.882	.7087	.0926	5.84	11 16.7	.3056	22 33.4	3.23
	14	.871	.7122	.0914	5.77	11 17.1	.3052	22 29.6	3.37
	15	.861	.7157	.0902	5.70	11 17.5	.3047	22 25.7	3.50
	16	.851	.7192	.0889	5.63	11 18.0	.3042	22 21.9	3.63
	17	.840	.7227	.0876	5.56	11 18.5	.3037	22 18.0	3.76
	18	.830	.7261	.0863	5.49	11 19.0	.3031	22 14.2	3.88
	19	.821	.7295	.0850	5.42	11 19.6	.3026	22 10.3	4.01
	20	.811	.7329	.0836	5.36	11 20.2	.3020	22 6.4	4.14
	21	−0.801	−0.7363	+0.0822	5.29	11 20.8	1.3015	22 2.5	−4.26
	22	.791	.7396	.0808	5.22	11 21.5	.3009	21 58.6	4.38
	23	.782	.7429	.0793	5.15	11 22.2	.3003	21 54.7	4.50
	24	.772	.7462	.0778	5.09	11 22.9	.2997	21 50.8	4.62
	25	.763	.7495	.0763	5.02	11 23.7	.2991	21 46.8	4.74
	26	.753	.7527	.0748	4.96	11 24.5	.2985	21 42.9	4.86
	27	.744	.7559	.0733	4.89	11 25.3	.2979	21 38.9	4.98
	28	.735	.7590	.0717	4.83	11 26.2	.2973	21 35.0	5.09
	29	.726	.7621	.0702	4.77	11 27.1	.2966	21 31.0	5.20
	30	.717	.7652	.0686	4.71	11 28.1	.2960	21 27.0	5.31
	31	−0.708	−0.7683	+0.0670	4.65	11 29.0	1.2953	21 23.0	−5.42
Februar	1	.699	.7713	.0654	4.58	11 30.0	.2947	21 19.0	5.53
	2	.690	.7743	.0638	4.52	11 31.0	.2940	21 15.0	5.63
	3	.682	.7773	.0621	4.47	11 32.1	.2933	21 10.9	5.74
	4	.673	.7802	.0605	4.41	11 33.2	.2927	21 6.9	5.84
	5	.665	.7831	.0589	4.35	11 34.3	.2920	21 2.8	5.94
	6	.657	.7859	.0573	4.29	11 35.5	.2914	20 58.8	6.03
	7	.649	.7887	.0557	4.24	11 36.7	.2907	20 54.7	6.13
	8	.641	.7914	.0541	4.18	11 38.0	.2900	20 50.6	6.22
	9	.633	.7941	.0525	4.13	11 39.2	.2894	20 46.5	6.31
	10	−0.625	−0.7968	+0.0509	4.08	11 40.5	1.2887	20 42.4	−6.40
	11	.617	.7994	.0493	4.02	11 41.8	.2881	20 38.3	6.49
	12	.609	.8020	.0477	3.97	11 43.1	.2874	20 34.2	6.58
	13	.602	.8046	.0462	3.92	11 44.4	.2868	20 30.0	6.66
	14	.594	.8071	.0447	3.87	11 45.8	.2862	20 25.9	6.74
	15	.587	.8096	.0432	3.82	11 47.2	.2855	20 21.7	6.82
	16	.579	.8121	.0417	3.77	11 48.7	.2849	20 17.6	6.90
	17	.572	.8145	.0403	3.72	11 50.1	.2843	20 13.4	6.98
	18	.565	.8168	.0389	3.67	11 51.6	.2837	20 9.2	7.05
	19	.558	.8191	.0375	3.63	11 53.1	.2831	20 5.0	7.12

1834

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 20	$-0^s.551$	−0.8214	+0.0361	3.″58	$11^h 54^m.6$	1.2825	$20^h\ 0^m.8$	−7.″19
21	.544	.8237	.0347	3.53	11 56.1	.2820	19 56.6	7.25
22	.537	.8260	.0333	3.49	11 57.7	.2814	19 52.3	7.32
23	.530	.8282	.0320	3.44	11 59.3	.2809	19 48.1	7.38
24	.524	.8304	.0307	3.40	12 0.8	.2803	19 43.9	7.44
25	.517	.8326	.0295	3.36	12 2.4	.2798	19 39.6	7.50
26	.511	.8347	.0283	3.31	12 4.0	.2793	19 35.4	7.55
27	.504	.8367	.0272	3.27	12 5.6	.2788	19 31.1	7.60
28	.498	.8388	.0261	3.23	12 7.2	.2784	19 26.8	7.65
März 1	.491	.8408	.0251	3.19	12 8.8	.2779	19 22.5	7.70
2	−0.485	−0.8429	+0.0241	3.15	12 10.3	1.2775	19 18.2	−7.75
3	.479	.8449	.0231	3.11	12 11.9	.2771	19 13.9	7.79
4	.473	.8469	.0222	3.07	12 13.5	.2767	19 9.6	7.83
5	.467	.8488	.0214	3.03	12 15.0	.2764	19 5.3	7.87
6	.461	.8507	.0206	2.99	12 16.6	.2760	19 1.0	7.90
7	.455	.8526	.0199	2.96	12 18.2	.2757	18 56.7	7.94
8	.449	.8545	.0192	2.92	12 19.8	.2754	18 52.4	7.97
9	.443	.8563	.0185	2.88	12 21.3	.2751	18 48.1	8.00
10	.437	.8582	.0179	2.85	12 22.9	.2749	18 43.8	8.02
11	.431	.8600	.0173	2.81	12 24.4	.2746	18 39.4	8.05
12	−0.425	−0.8618	+0.0168	2.77	12 26.0	1.2744	18 35.1	−8.07
13	.419	.8636	.0164	2.74	12 27.5	.2742	18 30.8	8.09
14	.413	.8653	.0160	2.70	12 28.9	.2741	18 26.4	8.10
15	.407	.8671	.0157	2.66	12 30.4	.2740	18 22.1	8.12
16	.402	.8689	.0155	2.63	12 31.8	.2739	18 17.8	8.13
17	.396	.8707	.0153	2.59	12 33.3	.2738	18 13.4	8.14
18	.390	.8724	.0151	2.56	12 34.7	.2737	18 9.1	8.14
19	.384	.8742	.0150	2.52	12 36.1	.2736	18 4.8	8.15
20	.379	.8760	.0150	2.48	12 37.5	.2736	18 0.4	8.15
21	.373	.8778	.0150	2.45	12 38.8	.2736	17 56.1	8.15
22	−0.367	−0.8795	+0.0151	2.41	12 40.1	1.2737	17 51.8	−8.14
23	.361	.8813	.0153	2.38	12 41.4	.2737	17 47.5	8.14
24	.356	.8831	.0155	2.34	12 42.7	.2738	17 43.2	8.13
25	.350	.8849	.0157	2.31	12 44.0	.2739	17 38.9	8.12
26	.344	.8867	.0160	2.27	12 45.2	.2740	17 34.6	8.11
27	.338	.8885	.0163	2.23	12 46.4	.2742	17 30.3	8.09
28	.332	.8903	.0167	2.20	12 47.5	.2744	17 26.0	8.07
29	.327	.8922	.0172	2.16	12 48.7	.2746	17 21.7	8.05
30	.321	.8940	.0177	2.12	12 49.9	.2748	17 17.4	8.03
31	.315	.8959	.0183	2.09	12 51.0	.2750	17 13.1	8.01
April 1	−0.309	−0.8978	+0.0189	2.05	12 52.1	1.2753	17 8.9	−7.98
2	.303	.8997	.0196	2.01	12 53.2	.2756	17 4.6	7.95
3	.297	.9016	.0203	1.97	12 54.3	.2759	17 0.4	7.92
4	.291	.9035	.0211	1.93	12 55.4	.2762	16 56.1	7.88
5	.285	.9054	.0219	1.90	12 56.4	.2766	16 51.9	7.85
6	.279	.9074	.0228	1.86	12 57.5	.2770	16 47.7	7.81
7	.273	.9094	.0237	1.82	12 58.5	.2774	16 43.5	7.77
8	.266	.9114	.0247	1.78	12 59.5	.2778	16 39.3	7.72
9	.260	.9134	.0257	1.74	13 0.5	.2782	16 35.1	7.68
10	.254	.9154	.0268	1.70	13 1.5	.2786	16 30.9	7.63

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	11	$-0^s.247$	−0.9175	+0.0279	1″.65	$13^h\ 2^m.5$	1.2791	$16^h26^m.7$	−7″.58
	12	.241	.9196	.0290	1.61	13 3.5	.2796	16 22.6	7.52
	13	.234	.9217	.0301	1.57	13 4.5	.2801	16 18.4	7.47
	14	.228	.9238	.0313	1.53	13 5.5	.2806	16 14.3	7.41
	15	.221	.9259	.0325	1.48	13 6.5	.2811	16 10.1	7.35
	16	.214	.9281	.0338	1.44	13 7.5	.2816	16 6.0	7.29
	17	.207	.9303	.0351	1.40	13 8.5	.2821	16 1.9	7.23
	18	.200	.9326	.0364	1.35	13 9.6	.2827	15 57.8	7.17
	19	.193	.9349	.0377	1.31	13 10.7	.2832	15 53.8	7.10
	20	.186	.9372	.0391	1.26	13 11.9	.2838	15 49.7	7.03
	21	−0.179	−0.9395	+0.0405	1.21	13 13.3	1.2844	15 45.7	−6.96
	22	.172	.9419	.0419	1.16	13 14.8	.2850	15 41.6	6.89
	23	.165	.9443	.0433	1.12	13 16.4	.2856	15 37.6	6.81
	24	.157	.9467	.0448	1.07	13 18.1	.2862	15 33.6	6.74
	25	.150	.9492	.0463	1.02	13 19.9	.2868	15 29.6	6.66
	26	.142	.9516	.0478	0.97	13 21.8	.2874	15 25.6	6.58
	27	.135	.9541	.0493	0.92	13 23.8	.2881	15 21.6	6.49
	28	.127	.9566	.0508	0.87	13 26.2	.2887	15 17.7	6.41
	29	.119	.9592	.0523	0.82	13 29.0	.2893	15 13.7	6.32
	30	.112	.9617	.0539	0.77	13 32.2	.2900	15 9.8	6.23
Mai	1	−0.104	−0.9642	+0.0554	0.72	13 35.9	1.2906	15 5.9	−6.14
	2	.095	.9668	.0569	0.67	13 40.2	.2912	15 2.0	6.05
	3	.087	.9694	.0585	0.61	13 45.3	.2919	14 58.1	5.96
	4	.079	.9721	.0600	0.56	13 51.3	.2925	14 54.2	5.87
	5	.071	.9747	.0616	0.51	13 58.6	.2931	14 50.4	5.77
	6	.063	.9773	.0631	0.46	14 7.7	.2937	14 46.5	5.67
	7	.054	.9798	.0647	0.40	14 19.5	.2944	14 42.7	5.57
	8	.046	.9824	.0662	0.35	14 34.9	.2950	14 38.9	5.47
	9	.037	.9848	.0677	0.30	14 55.7	.2956	14 35.1	5.37
	10	.028	.9871	.0692	0.26	15 24.5	.2962	14 31.3	5.26
	11	−0.019	−0.9892	+0.0707	0.22	16 5.7	1.2968	14 27.5	−5.16
	12	.010	.9906	.0722	0.19	17 3.3	.2974	14 23.7	5.05
	13	−0.001	.9914	.0737	0.17	18 16.0	.2980	14 19.9	4.94
	14	+0.008	.9911	.0751	0.18	19 35.3	.2986	14 16.2	4.83
	15	.017	.9899	.0766	0.20	20 43.1	.2992	14 12.5	4.72
	16	.026	.9880	.0780	0.24	21 31.8	.2998	14 8.7	4.61
	17	.035	.9856	.0794	0.29	22 7.3	.3004	14 5.0	4.50
	18	.045	.9830	.0807	0.34	22 31.5	.3009	14 1.3	4.38
	19	.054	.9803	.0821	0.40	22 48.9	.3014	13 57.6	4.27
	20	.064	.9774	.0834	0.45	23 2.3	.3020	13 53.9	4.15
	21	+0.073	−0.9744	+0.0847	0.51	23 12.7	1.3025	13 50.3	−4.03
	22	.083	.9714	.0860	0.57	23 20.8	.3030	13 46.6	3.91
	23	.093	.9683	.0873	0.64	23 27.2	.3035	13 42.9	3.79
	24	.103	.9651	.0885	0.70	23 32.3	.3040	13 39.3	3.67
	25	.113	.9620	.0897	0.76	23 36.5	.3045	13 35.7	3.55
	26	.123	.9588	.0909	0.83	23 39.9	.3049	13 32.1	3.42
	27	.133	.9555	.0920	0.89	23 42.8	.3054	13 28.4	3.30
	28	.143	.9523	.0931	0.96	23 45.2	.3058	13 24.8	3.17
	29	.153	.9490	.0942	1.02	23 47.2	.3062	13 21.2	3.05
	30	.163	.9457	.0952	1.09	23 48.9	.3066	13 17.6	2.92

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	31	$+0^s.174$	−0.9424	+0.0962	1″.16	$23^h 50^m.3$	1.3070	$13^h 14^m.0$	−2″.79
Juni	1	.184	.9390	.0971	1.22	23 51.5	.3074	13 10.5	2.67
	2	.194	.9356	.0980	1.29	23 52.4	.3078	13 6.9	2.54
	3	.205	.9322	.0988	1.36	23 53.1	.3081	13 3.3	2.41
	4	.215	.9288	.0996	1.43	23 53.6	.3084	12 59.8	2.28
	5	.226	.9254	.1004	1.50	23 54.0	.3087	12 56.2	2.15
	6	.236	.9220	.1011	1.56	23 54.4	.3090	12 52.7	2.01
	7	.247	.9185	.1018	1.63	23 54.7	.3093	12 49.1	1.88
	8	.258	.9150	.1024	1.70	23 54.9	.3095	12 45.6	1.75
	9	.269	.9116	.1030	1.77	23 54.8	.3098	12 42.1	1.62
	10	+0.279	−0.9081	+0.1035	1.84	23 54.8	1.3100	12 38.6	−1.48
	11	.290	.9046	.1040	1.91	23 54.7	.3102	12 35.0	1.35
	12	.301	.9011	.1045	1.98	23 54.6	.3103	12 31.5	1.22
	13	.312	.8975	.1049	2.06	23 54.4	.3105	12 28.0	1.08
	14	.322	.8940	.1053	2.13	23 54.1	.3106	12 24.5	0.95
	15	.333	.8904	.1056	2.20	23 53.8	.3108	12 21.0	0.81
	16	.344	.8869	.1059	2.27	23 53.5	.3109	12 17.5	0.68
	17	.355	.8833	.1061	2.34	23 53.1	.3110	12 14.0	0.54
	18	.366	.8798	.1063	2.41	23 52.7	.3110	12 10.5	0.40
	19	.377	.8762	.1064	2.48	23 52.3	.3111	12 7.0	0.27
	20	+0.388	−0.8726	+0.1065	2.55	23 51.9	1.3111	12 3.5	−0.13
	21	.399	.8690	.1065	2.63	23 51.4	.3111	12 0.0	0.00
	22	.410	.8655	.1065	2.70	23 50.8	.3111	11 56.5	+0.14
	23	.421	.8619	.1064	2.77	23 50.3	.3111	11 53.0	0.27
	24	.432	.8584	.1063	2.84	23 49.7	.3110	11 49.5	0.41
	25	.443	.8548	.1061	2.91	23 49.1	.3110	11 46.0	0.54
	26	.453	.8513	.1059	2.98	23 48.5	.3109	11 42.5	0.68
	27	.464	.8477	.1056	3.05	23 47.9	.3108	11 39.0	0.81
	28	.475	.8441	.1053	3.13	23 47.2	.3106	11 35.5	0.95
	29	.486	.8405	.1049	3.20	23 46.6	.3105	11 31.9	1.08
	30	+0.497	−0.8369	+0.1045	3.27	23 45.9	1.3103	11 28.4	+1.22
Juli	1	.508	.8333	.1041	3.34	23 45.3	.3102	11 24.9	1.35
	2	.518	.8297	.1036	3.41	23 44.6	.3100	11 21.4	1.49
	3	.529	.8262	.1031	3.48	23 43.9	.3098	11 17.9	1.62
	4	.540	.8227	.1025	3.55	23 43.2	.3095	11 14.4	1.75
	5	.551	.8192	.1018	3.63	23 42.5	.3093	11 10.8	1.88
	6	.561	.8157	.1011	3.70	23 41.8	.3090	11 7.3	2.02
	7	.572	.8122	.1004	3.77	23 41.0	.3087	11 3.8	2.15
	8	.583	.8087	.0996	3.84	23 40.3	.3084	11 0.2	2.28
	9	.593	.8052	.0988	3.91	23 39.6	.3081	10 56.7	2.41
	10	+0.604	−0.8017	+0.0980	3.98	23 38.8	1.3078	10 53.1	+2.54
	11	.614	.7983	.0971	4.05	23 38.1	.3074	10 49.6	2.66
	12	.624	.7948	.0962	4.12	23 37.3	.3070	10 46.0	2.79
	13	.635	.7914	.0952	4.18	23 36.6	.3066	10 42.5	2.92
	14	.645	.7879	.0942	4.25	23 35.8	.3062	10 38.9	3.04
	15	.655	.7845	.0931	4.32	23 35.1	.3058	10 35.3	3.17
	16	.665	.7811	.0920	4.39	23 34.3	.3054	10 31.7	3.29
	17	.675	.7777	.0909	4.46	23 33.6	.3050	10 28.1	3.42
	18	.685	.7743	.0898	4.52	23 32.8	.3045	10 24.5	3.54
	19	.695	.7710	.0886	4.59	23 32.1	.3040	10 20.9	3.66

1834

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	20	+0.8705	−0.7677	+0.0874	4.″66	23h31.m3	1.3036	10h17.m3	+3.″78
	21	.715	.7644	.0862	4.72	23 30.6	.3031	10 13.6	3.90
	22	.725	.7611	.0849	4.79	23 29.8	.3026	10 10.0	4.02
	23	.734	.7578	.0836	4.86	23 29.1	.3020	10 6.3	4.14
	24	.744	.7545	.0823	4.92	23 28.4	.3015	10 2.7	4.26
	25	.754	.7513	.0809	4.99	23 27.6	.3010	9 59.0	4.37
	26	.763	.7481	.0796	5.05	23 26.9	.3004	9 55.3	4.49
	27	.772	.7449	.0782	5.11	23 26.2	.2999	9 51.6	4.60
	28	.782	.7417	.0768	5.18	23 25.5	.2993	9 47.9	4.71
	29	.791	.7386	.0754	5.24	23 24.7	.2987	9 44.2	4.82
	30	+0.800	−0.7354	+0.0740	5.31	23 24.0	1.2981	9 40.5	+4.93
	31	.809	.7323	.0725	5.37	23 23.3	.2976	9 36.8	5.04
August	1	.818	.7292	.0710	5.43	23 22.6	.2970	9 33.0	5.14
	2	.827	.7261	.0695	5.49	23 21.9	.2963	9 29.3	5.25
	3	.836	.7230	.0680	5.55	23 21.2	.2957	9 25.5	5.35
	4	.844	.7200	.0665	5.61	23 20.5	.2951	9 21.7	5.45
	5	.853	.7170	.0650	5.67	23 19.8	.2945	9 17.9	5.55
	6	.862	.7141	.0634	5.73	23 19.2	.2939	9 14.1	5.65
	7	.870	.7111	.0619	5.79	23 18.5	.2933	9 10.3	5.75
	8	.878	.7082	.0604	5.85	23 17.9	.2926	9 6.5	5.85
	9	+0.887	−0.7053	+0.0588	5.91	23 17.2	1.2920	9 2.7	+5.94
	10	.895	.7024	.0573	5.97	23 16.6	.2914	8 58.8	6.03
	11	.903	.6995	.0558	6.02	23 16.0	.2908	8 54.9	6.12
	12	.911	.6967	.0543	6.08	23 15.4	.2901	8 51.1	6.21
	13	.919	.6939	.0528	6.14	23 14.8	.2895	8 47.2	6.30
	14	.927	.6911	.0513	6.19	23 14.2	.2889	8 43.3	6.39
	15	.935	.6883	.0498	6.25	23 13.7	.2883	8 39.4	6.47
	16	.942	.6856	.0483	6.30	23 13.1	.2876	8 35.4	6.55
	17	.950	.6829	.0468	6.36	23 12.5	.2870	8 31.5	6.63
	18	.958	.6803	.0453	6.41	23 12.0	.2864	8 27.5	6.71
	19	+0.965	−0.6776	+0.0438	6.46	23 11.5	1.2858	8 23.6	+6.79
	20	.972	.6750	.0424	6.52	23 11.0	.2852	8 19.6	6.86
	21	.980	.6724	.0410	6.57	23 10.4	.2846	8 15.6	6.94
	22	.987	.6699	.0396	6.62	23 10.0	.2840	8 11.6	7.01
	23	0.994	.6673	.0382	6.67	23 9.5	.2835	8 7.6	7.08
	24	1.001	.6648	.0369	6.72	23 9.0	.2829	8 3.6	7.14
	25	.008	.6623	.0356	6.77	23 8.6	.2824	7 59.5	7.21
	26	.015	.6599	.0343	6.82	23 8.2	.2818	7 55.5	7.27
	27	.022	.6574	.0330	6.87	23 7.8	.2813	7 51.4	7.33
	28	.029	.6550	.0318	6.92	23 7.4	.2808	7 47.3	7.39
	29	+1.036	−0.6526	+0.0306	6.97	23 7.0	1.2803	7 43.2	+7.45
	30	.042	.6502	.0294	7.01	23 6.6	.2798	7 39.1	7.50
	31	.049	.6478	.0283	7.06	23 6.2	.2793	7 35.0	7.55
Septbr.	1	.055	.6455	.0272	7.11	23 5.9	.2788	7 30.9	7.60
	2	.062	.6432	.0262	7.15	23 5.6	.2784	7 26.8	7.65
	3	.068	.6310	.0252	7.20	23 5.3	.2780	7 22.6	7.70
	4	.075	.6387	.0242	7.24	23 5.0	.2776	7 18.5	7.74
	5	.081	.6365	.0233	7.29	23 4.8	.2772	7 14.3	7.79
	6	.087	.6343	.0224	7.33	23 4.5	.2768	7 10.2	7.83
	7	.094	.6321	.0216	7.38	23 4.3	.2764	7 6.0	7.86

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	8	$+1^s.100$	−0.6299	+0.0208	7".42	$23^h\ 4^m.0$	1.2761	$7^h\ 1^m.8$	+7".90
	9	.106	.6278	.0200	7.46	23 3.8	.2758	6 57.6	7.93
	10	.112	.6256	.0193	7.51	23 3.6	.2755	6 53.4	7.96
	11	.118	.6235	.0186	7.55	23 3.5	.2752	6 49.2	7.99
	12	.124	.6214	.0180	7.59	23 3.3	.2749	6 45.0	8.02
	13	.130	.6193	.0175	7.63	23 3.2	.2747	6 40.7	8.04
	14	.136	.6172	.0170	7.67	23 3.1	.2745	6 36.5	8.06
	15	.142	.6152	.0166	7.72	23 3.0	.2743	6 32.3	8.08
	16	.148	.6132	.0162	7.76	23 2.9	.2741	6 28.0	8.10
	17	.154	.6112	.0159	7.80	23 2.9	.2740	6 23.8	8.11
	18	+1.160	−0.6092	+0.0156	7.84	23 2.8	1.2739	6 19.5	+8.12
	19	.166	.6072	.0154	7.88	23 2.8	.2738	6 15.2	8.13
	20	.172	.6052	.0152	7.92	23 2.8	.2737	6 11.0	8.14
	21	.178	.6032	.0151	7.96	23 2.8	.2737	6 6.7	8.15
	22	.184	.6012	.0150	8.00	23 2.8	.2736	6 2.4	8.15
	23	.190	.5993	.0150	8.04	23 2.8	.2736	5 58.2	8.15
	24	.195	.5973	.0150	8.07	23 2.9	.2737	5 53.9	8.15
	25	.201	.5954	.0151	8.11	23 2.9	.2737	5 49.6	8.14
	26	.207	.5934	.0153	8.15	23 3.0	.2738	5 45.3	8.14
	27	.213	.5915	.0155	8.19	23 3.2	.2739	5 41.0	8.13
	28	+1.219	−0.5895	+0.0158	8.23	23 3.3	1.2740	5 36.8	+8.11
	29	.225	.5876	.0161	8.27	23 3.4	.2741	5 32.5	8.10
	30	.231	.5857	.0165	8.31	23 3.6	.2743	5 28.2	8.08
Oktbr.	1	.237	.5837	.0169	8.35	23 3.8	.2745	5 23.9	8.06
	2	.243	.5818	.0174	8.39	23 4.0	.2747	5 19.6	8.04
	3	.249	.5798	.0180	8.43	23 4.2	.2749	5 15.4	8.02
	4	.255	.5779	.0186	8.46	23 4.4	.2752	5 11.1	7.99
	5	.261	.5759	.0193	8.50	23 4.7	.2755	5 6.8	7.96
	6	.267	.5740	.0200	8.54	23 4.9	.2758	5 2.6	7.93
	7	.274	.5720	.0208	8.58	23 5.2	.2761	4 58.3	7.90
	8	+1.280	−0.5701	+0.0216	8.62	23 5.5	1.2764	4 54.0	+7.86
	9	.286	.5681	.0225	8.66	23 5.8	.2768	4 49.8	7.83
	10	.293	.5661	.0234	8.70	23 6.1	.2772	4 45.5	7.79
	11	.299	.5641	.0243	8.74	23 6.4	.2776	4 41.3	7.74
	12	.306	.5621	.0253	8.78	23 6.8	.2780	4 37.0	7.70
	13	.312	.5600	.0263	8.82	23 7.1	.2784	4 32.8	7.65
	14	.319	.5580	.0274	8.86	23 7.5	.2789	4 28.6	7.60
	15	.325	.5559	.0285	8.90	23 7.9	.2794	4 24.4	7.55
	16	.332	.5538	.0297	8.95	23 8.2	.2799	4 20.2	7.49
	17	.339	.5517	.0309	8.99	23 8.6	.2804	4 16.0	7.44
	18	+1.346	−0.5496	+0.0321	9.03	23 9.0	1.2809	4 11.8	+7.38
	19	.353	.5475	.0334	9.07	23 9.5	.2814	4 7.6	7.32
	20	.360	.5453	.0347	9.12	23 9.9	.2820	4 3.4	7.25
	21	.367	.5431	.0360	9.16	23 10.3	.2825	3 59.2	7.19
	22	.374	.5409	.0374	9.20	23 10.8	.2831	3 55.0	7.12
	23	.381	.5387	.0388	9.25	23 11.2	.2837	3 50.9	7.05
	24	.389	.5364	.0402	9.29	23 11.7	.2843	3 46.7	6.98
	25	.396	.5341	.0417	9.34	23 12.1	.2849	3 42.6	6.90
	26	.404	.5318	.0431	9.39	23 12.6	.2855	3 38.5	6.83
	27	.411	.5295	.0446	9.43	23 13.1	.2861	3 34.3	6.75

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	28	+1.8419	−0.5272	+0.0461	9".48	$23^h13^m.6$	1.2868	$3^h30^m.2$	+6".67
	29	.427	.5248	.0477	9.53	23 14.1	.2874	3 26.1	6.59
	30	.435	.5224	.0492	9.58	23 14.6	.2880	3 22.0	6.50
	31	.443	.5199	.0508	9.63	23 15.1	.2887	3 18.0	6.41
Novbr.	1	.451	.5174	.0523	9.68	23 15.6	.2893	3 13.9	6.33
	2	.459	.5149	.0539	9.73	23 16.0	.2900	3 9.8	6.23
	3	.467	.5124	.0555	9.78	23 16.5	.2906	3 5.8	6.14
	4	.476	.5098	.0571	9.83	23 17.0	.2913	3 1.7	6.05
	5	.484	.5072	.0587	9.88	23 17.5	.2920	2 57.7	5.95
	6	.493	.5046	.0603	9.93	23 18.0	.2926	2 53.7	5.85
	7	+1.501	−0.5019	+0.0619	9.99	23 18.5	1.2933	2 49.7	+5.75
	8	.510	.4992	.0635	10.04	23 18.9	.2939	2 45.7	5.65
	9	.519	.4965	.0651	10.10	23 19.4	.2946	2 41.7	5.55
	10	.528	.4937	.0667	10.15	23 19.9	.2952	2 37.7	5.44
	11	.537	.4909	.0683	10.21	23 20.4	.2959	2 33.7	5.33
	12	.546	.4881	.0699	10.26	23 20.8	.2965	2 29.8	5.22
	13	.555	.4852	.0715	10.32	23 21.3	.2971	2 25.8	5.11
	14	.565	.4822	.0730	10.38	23 21.8	.2977	2 21.9	5.00
	15	.574	.4793	.0745	10.44	23 22.2	.2984	2 18.0	4.89
	16	.584	.4763	.0760	10.50	23 22.7	.2990	2 14.0	4.77
	17	+1.593	−0.4733	+0.0775	10.56	23 23.1	1.2996	2 10.1	+4.65
	18	.603	.4703	.0789	10.62	23 23.5	.3002	2 6.2	4.53
	19	.613	.4672	.0804	10.68	23 24.0	.3007	2 2.3	4.41
	20	.623	.4641	.0818	10.75	23 24.4	.3013	1 58.4	4.29
	21	.633	.4610	.0832	10.81	23 24.8	.3019	1 54.6	4.17
	22	.643	.4578	.0846	10.87	23 25.2	.3024	1 50.7	4.05
	23	.654	.4546	.0860	10.94	23 25.5	.3030	1 46.9	3.92
	24	.664	.4513	.0873	11.00	23 25.9	.3035	1 43.0	3.79
	25	.674	.4480	.0886	11.07	23 26.3	.3040	1 39.2	3.66
	26	.684	.4447	.0898	11.13	23 26.6	.3045	1 35.3	3.53
	27	+1.695	−0.4414	+0.0910	11.20	23 27.0	1.3050	1 31.5	+3.40
	28	.705	.4380	.0922	11.27	23 27.3	.3055	1 27.7	3.27
	29	.716	.4346	.0933	11.34	23 27.6	.3059	1 23.9	3.14
	30	.727	.4311	.0944	11.41	23 27.9	.3064	1 20.0	3.01
Dezbr.	1	.738	.4277	.0955	11.48	23 28.2	.3068	1 16.2	2.87
	2	.749	.4242	.0965	11.55	23 28.5	.3072	1 12.4	2.74
	3	.760	.4207	.0975	11.62	23 28.8	.3076	1 8.7	2.60
	4	.771	.4172	.0984	11.69	23 29.0	.3079	1 4.9	2.46
	5	.782	.4137	.0993	11.76	23 29.3	.3083	1 1.1	2.33
	6	.793	.4101	.1001	11.83	23 29.5	.3086	0 57.3	2.19
	7	+1.804	−0.4065	+0.1009	11.90	23 29.7	1.3089	0 53.6	+2.05
	8	.815	.4029	.1017	11.97	23 29.9	.3092	0 49.8	1.91
	9	.826	.3993	.1024	12.05	23 30.1	.3095	0 46.0	1.77
	10	.838	.3956	.1030	12.12	23 30.3	.3097	0 42.3	1.62
	11	.849	.3919	.1036	12.19	23 30.5	.3100	0 38.5	1.48
	12	.860	.3882	.1041	12.27	23 30.6	.3102	0 34.8	1.34
	13	.872	.3845	.1046	12.34	23 30.8	.3104	0 31.0	1.20
	14	.883	.3808	.1050	12.42	23 30.9	.3105	0 27.3	1.05
	15	.895	.3771	.1054	12.49	23 31.0	.3107	0 23.5	0.91
	16	.906	.3734	.1057	12.57	23 31.1	.3108	0 19.8	0.77

1834

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	17	$+1^s.918$	−0.3697	+0.1060	12″.64	$23^h31^m.2$	1.3109	$0^h16^m.0$	+0″.62
	18	.929	.3659	.1062	12.72	23 31.2	.3110	0 12.3	0.48
	19	.941	.3621	.1064	12.79	23 31.3	.3111	0 8.6	0.33
	20	.953	.3583	.1065	12.87	23 31.3	.3111	0 4.8	0.19
	21	.964	.3545	.1065	12.94	23 31.3	.3111	0 1.1	+0.04
	22	.976	.3507	.1065	13.02	23 31.4	.3111	23 57.4	−0.10
	23	.987	.3469	.1064	13.10	23 31.4	.3111	23 53.6	0.25
	24	1.999	.3431	.1063	13.17	23 31.4	.3110	23 49.9	0.39
	25	2.010	.3393	.1061	13.25	23 31.4	.3110	23 46.1	0.54
	26	.022	.3355	.1059	13.32	23 31.3	.3109	23 42.4	0.68
	27	+2.034	−0.3317	+0.1056	13.40	23 31.3	1.3108	23 38.6	−0.83
	28	.045	.3279	.1053	13.48	23 31.2	.3106	23 34.9	0.97
	29	.057	.3241	.1049	13.55	23 31.2	.3105	23 31.1	1.11
	30	.068	.3204	.1045	13.63	23 31.1	.3103	23 27.4	1.26
	31	.079	.3167	.1041	13.71	23 31.0	.3101	23 23.6	1.40

1835

Januar	1	$-0^s.980$	−0.6701	+0.1033	6″.62	$13^h1^m.1$	1.3099	$23^h19^m.9$	−1″.54
	2	.969	.6734	.1027	6.55	13 2.3	.3096	23 16.1	1.68
	3	.958	.6767	.1021	6.48	13 3.6	.3094	23 12.4	1.82
	4	.946	.6800	.1014	6.42	13 4.9	.3091	23 8.6	1.97
	5	.935	.6833	.1006	6.35	13 6.2	.3088	23 4.8	2.11
	6	.924	.6865	.0998	6.29	13 7.6	.3085	23 1.0	2.25
	7	.912	.6897	.0990	6.22	13 9.1	.3082	22 57.2	2.38
	8	.901	.6929	.0981	6.16	13 10.6	.3078	22 53.4	2.52
	9	.890	.6960	.0971	6.10	13 12.1	.3074	22 49.6	2.66
	10	.879	.6990	.0961	6.04	13 13.7	.3070	22 45.8	2.80
	11	−0.869	−0.7020	+0.0951	5.97	13 15.4	1.3066	22 42.0	−2.93
	12	.858	.7050	.0940	5.91	13 17.0	.3062	22 38.2	3.07
	13	.847	.7079	.0928	5.85	13 18.7	.3057	22 34.4	3.20
	14	.836	.7108	.0916	5.80	13 20.5	.3053	22 30.5	3.33
	15	.826	.7137	.0904	5.74	13 22.3	.3048	22 26.7	3.46
	16	.815	.7165	.0892	5.68	13 24.2	.3043	22 22.8	3.60
	17	.805	.7193	.0880	5.63	13 26.1	.3038	22 19.0	3.73
	18	.794	.7220	.0867	5.57	13 28.1	.3033	22 15.1	3.85
	19	.784	.7246	.0854	5.52	13 30.1	.3027	22 11.2	3.98
	20	.774	.7272	.0840	5.47	13 32.1	.3022	22 7.3	4.11
	21	−0.764	−0.7297	+0.0826	5.42	13 34.2	1.3016	22 3.5	−4.23
	22	.753	.7322	.0811	5.37	13 36.3	.3010	21 59.6	4.35
	23	.743	.7346	.0797	5.32	13 38.5	.3005	21 55.6	4.48
	24	.734	.7370	.0782	5.27	13 40.7	.2999	21 51.7	4.60
	25	.724	.7393	.0767	5.23	13 43.0	.2993	21 47.8	4.72
	26	.714	.7416	.0752	5.18	13 45.3	.2987	21 43.8	4.83
	27	.705	.7438	.0737	5.14	13 47.6	.2980	21 39.9	4.95
	28	.695	.7459	.0721	5.10	13 49.9	.2974	21 35.9	5.06
	29	.686	.7480	.0706	5.05	13 52.3	.2968	21 31.9	5.18
	30	.676	.7500	.0690	5.01	13 54.7	.2961	21 28.0	5.29

1835

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 31	−0.667	−0.7519	+0.0674	4.″97	$13^h57.^m2$	1.2955	$21^h24.^m0$	−5.″40
Februar 1	.658	.7538	.0658	4.94	13 59.7	.2948	21 20.0	5.50
2	.649	.7556	.0641	4.90	14 2.2	.2942	21 16.0	5.61
3	.640	.7574	.0625	4.86	14 4.7	.2935	21 11.9	5.71
4	.631	.7591	.0609	4.83	14 7.2	.2928	21 7.9	5.81
5	.622	.7608	.0593	4.80	14 9.8	.2922	21 3.8	5.91
6	.614	.7624	.0577	4.76	14 12.3	.2915	20 59.8	6.01
7	.605	.7639	.0561	4.73	14 14.9	.2909	20 55.7	6.11
8	.597	.7654	.0545	4.70	14 17.5	.2902	20 51.6	6.20
9	.589	.7669	.0529	4.67	14 20.1	.2895	20 47.5	6.29
10	−0.580	−0.7683	+0.0513	4.65	14 22.7	1.2889	20 43.4	−6.38
11	.572	.7696	.0497	4.62	14 25.4	.2882	20 39.3	6.47
12	.564	.7709	.0481	4.59	14 28.0	.2876	20 35.2	6.56
13	.556	.7722	.0466	4.57	14 30.6	.2870	20 31.0	6.64
14	.548	.7734	.0451	4.54	14 33.3	.2863	20 26.9	6.73
15	.541	.7745	.0436	4.52	14 35.9	.2857	20 22.7	6.81
16	.533	.7756	.0421	4.50	14 38.5	.2851	20 18.6	6.88
17	.526	.7767	.0406	4.48	14 41.2	.2845	20 14.4	6.96
18	.518	.7777	.0392	4.46	14 43.8	.2839	20 10.2	7.03
19	.511	.7787	.0378	4.44	14 46.4	.2833	20 6.0	7.10
20	−0.503	−0.7797	+0.0364	4.42	14 49.0	1.2827	20 1.8	−7.17
21	.496	.7806	.0350	4.40	14 51.6	.2821	19 57.6	7.24
22	.489	.7815	.0337	4.38	14 54.2	.2815	19 53.4	7.30
23	.482	.7823	.0324	4.36	14 56.8	.2810	19 49.1	7.37
24	.475	.7832	.0311	4.35	14 59.3	.2805	19 44.9	7.43
25	.468	.7840	.0298	4.33	15 1.9	.2799	19 40.6	7.48
26	.461	.7848	.0286	4.31	15 4.4	.2794	19 36.4	7.54
27	.454	.7855	.0275	4.30	15 6.9	.2790	19 32.1	7.59
28	.447	.7863	.0264	4.29	15 9.4	.2785	19 27.8	7.64
März 1	.441	.7870	.0254	4.27	15 11.9	.2780	19 23.6	7.69
2	−0.434	−0.7877	+0.0244	4.26	15 14.3	1.2776	19 19.3	−7.74
3	.427	.7884	.0234	4.24	15 16.8	.2772	19 15.0	7.78
4	.421	.7891	.0225	4.23	15 19.2	.2768	19 10.7	7.82
5	.415	.7897	.0216	4.22	15 21.6	.2765	19 6.4	7.86
6	.408	.7904	.0208	4.20	15 24.0	.2761	19 2.1	7.90
7	.402	.7910	.0201	4.19	15 26.3	.2758	18 57.8	7.93
8	.396	.7916	.0194	4.18	15 28.6	.2755	18 53.5	7.96
9	.389	.7922	.0187	4.17	15 31.0	.2752	18 49.1	7.99
10	.383	.7929	.0181	4.15	15 33.3	.2749	18 44.8	8.02
11	.377	.7935	.0175	4.14	15 35.6	.2747	18 40.5	8.04
12	−0.371	−0.7941	+0.0170	4.13	15 37.8	1.2745	18 36.2	−8.06
13	.364	.7947	.0165	4.12	15 40.1	.2743	18 31.8	8.08
14	.358	.7953	.0161	4.10	15 42.3	.2741	18 27.5	8.10
15	.352	.7959	.0158	4.09	15 44.5	.2740	18 23.2	8.11
16	.346	.7965	.0155	4.08	15 46.8	.2739	18 18.8	8.12
17	.340	.7971	.0153	4.07	15 49.0	.2738	18 14.5	8.13
18	.334	.7977	.0151	4.05	15 51.2	.2737	18 10.2	8.14
19	.328	.7984	.0150	4.04	15 53.4	.2736	18 5.8	8.15
20	.322	.7991	.0150	4.03	15 55.5	.2736	18 1.5	8.15
21	.316	.7998	.0150	4.01	15 57.7	.2736	17 57.2	8.15

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	22	$-0^s.310$	−0.8005	+0.0151	$4''.00$	$15^h59^m.9$	1.2737	$17^h52^m.9$	$-8''.15$
	23	.304	.8012	.0152	3.99	16 2.0	.2737	17 48.5	8.14
	24	.297	.8019	.0154	3.97	16 4.2	.2738	17 44.2	8.13
	25	.291	.8026	.0156	3.96	16 6.3	.2739	17 39.9	8.12
	26	.285	.8033	.0159	3.94	16 8.5	.2740	17 35.6	8.11
	27	.279	.8041	.0163	3.93	16 10.7	.2742	17 31.3	8.09
	28	.273	.8048	.0167	3.91	16 12.9	.2743	17 27.0	8.08
	29	.267	.8056	.0171	3.90	16 15.1	.2745	17 22.7	8.06
	30	.261	.8064	.0176	3.88	16 17.3	.2747	17 18.4	8.04
	31	.255	.8072	.0181	3.87	16 19.5	.2750	17 14.2	8.01
April	1	−0.248	−0.8080	+0.0187	3.85	16 21.7	1.2752	17 9.9	−7.99
	2	.242	.8088	.0194	3.83	16 24.0	.2755	17 5.7	7.96
	3	.236	.8096	.0201	3.82	16 26.2	.2758	17 1.4	7.93
	4	.229	.8105	.0209	3.80	16 28.5	.2762	16 57.2	7.89
	5	.223	.8113	.0217	3.78	16 30.8	.2765	16 52.9	7.86
	6	.217	.8122	.0226	3.76	16 33.1	.2769	16 48.7	7.82
	7	.210	.8131	.0235	3.75	16 35.5	.2773	16 44.5	7.78
	8	.203	.8140	.0245	3.73	16 37.8	.2777	16 40.3	7.73
	9	.197	.8149	.0255	3.71	16 40.3	.2781	16 36.1	7.69
	10	.190	.8158	.0265	3.69	16 42.7	.2785	16 31.9	7.64
	11	−0.183	−0.8167	+0.0276	3.67	16 45.2	1.2790	16 27.7	−7.59
	12	.177	.8177	.0287	3.66	16 47.7	.2795	16 23.6	7.54
	13	.170	.8186	.0298	3.64	16 50.3	.2799	16 19.4	7.48
	14	.163	.8196	.0310	3.62	16 52.9	.2804	16 15.3	7.43
	15	.156	.8205	.0322	3.60	16 55.6	.2809	16 11.1	7.37
	16	.149	.8215	.0334	3.58	16 58.2	.2815	16 7.0	7.31
	17	.142	.8224	.0347	3.56	17 1.0	.2820	16 2.9	7.25
	18	.135	.8233	.0360	3.54	17 3.8	.2825	15 58.8	7.18
	19	.127	.8243	.0373	3.52	17 6.7	.2831	15 54.8	7.12
	20	.120	.8252	.0387	3.51	17 9.6	.2837	15 50.7	7.05
	21	−0.112	−0.8261	+0.0401	3.49	17 12.6	1.2842	15 46.6	−6.98
	22	.105	.8270	.0415	3.47	17 15.7	.2848	15 42.6	6.91
	23	.097	.8279	.0429	3.45	17 18.8	.2854	15 38.6	6.83
	24	.090	.8288	.0444	3.43	17 22.0	.2861	15 34.6	6.75
	25	.082	.8297	.0459	3.42	17 25.3	.2867	15 30.6	6.68
	26	.074	.8305	.0474	3.40	17 28.6	.2873	15 26.6	6.60
	27	.066	.8313	.0489	3.38	17 32.0	.2879	15 22.6	6.51
	28	.058	.8321	.0504	3.37	17 35.4	.2886	15 18.6	6.43
	29	.050	.8329	.0519	3.35	17 38.9	.2892	15 14.7	6.34
	30	.042	.8336	.0535	3.34	17 42.5	.2898	15 10.8	6.25
Mai	1	−0.034	−0.8343	+0.0550	3.32	17 46.2	1.2905	15 6.8	−6.17
	2	.025	.8349	.0566	3.31	17 49.9	.2911	15 2.9	6.08
	3	.017	.8355	.0582	3.30	17 53.7	.2917	14 59.1	5.98
	4	−0.008	.8361	.0597	3.29	17 57.6	.2923	14 55.2	5.89
	5	0.000	.8366	.0613	3.27	18 1.5	.2930	14 51.3	5.79
	6	+0.009	.8371	.0628	3.26	18 5.4	.2936	14 47.5	5.69
	7	.017	.8376	.0643	3.26	18 9.4	.2942	14 43.6	5.60
	8	.026	.8380	.0658	3.25	18 13.5	.2948	14 39.8	5.50
	9	.035	.8383	.0673	3.24	18 17.7	.2955	14 36.0	5.39
	10	.044	.8386	.0688	3.24	18 21.9	.2961	14 32.2	5.29

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	11	+0.s053	−0.8388	+0.0703	3.″23	$18^h26^m.2$	1.2967	$14^h28^m.4$	−5.″19
	12	.063	.8389	.0718	3.23	18 30.5	.2973	14 24.6	5.08
	13	.072	.8390	.0733	3.23	18 34.9	.2979	14 20.9	4.97
	14	.081	.8390	.0747	3.23	18 39.4	.2985	14 17.1	4.86
	15	.091	.8389	.0762	3.23	18 43.8	.2991	14 13.4	4.75
	16	.100	.8387	.0776	3.23	18 48.3	.2996	14 9.6	4.64
	17	.110	.8385	.0790	3.24	18 52.8	.3002	14 5.9	4.52
	18	.120	.8382	.0804	3.24	18 57.3	.3008	14 2.2	4.41
	19	.129	.8378	.0818	3.25	19 1.7	.3013	13 58.5	4.30
	20	.139	.8373	.0831	3.26	19 6.2	.3018	13 54.8	4.18
	21	+0.149	−0.8367	+0.0844	3.27	19 10.8	1.3024	13 51.1	−4.06
	22	.159	.8361	.0857	3.29	19 15.3	.3029	13 47.5	3.94
	23	.169	.8354	.0870	3.30	19 19.8	.3034	13 43.8	3.82
	24	.179	.8346	.0882	3.32	19 24.2	.3039	13 40.2	3.70
	25	.190	.8337	.0894	3.34	19 28.7	.3044	13 36.6	3.58
	26	.200	.8327	.0906	3.36	19 33.1	.3048	13 32.9	3.45
	27	.210	.8316	.0917	3.38	19 37.4	.3053	13 29.3	3.33
	28	.221	.8304	.0928	3.40	19 41.7	.3057	13 25.7	3.21
	29	.231	.8292	.0939	3.42	19 46.0	.3061	13 22.1	3.08
	30	.242	.8279	.0949	3.45	19 50.3	.3066	13 18.5	2.95
	31	+0.252	−0.8265	+0.0959	3.48	19 54.5	1.3070	13 14.9	−2.83
Juni	1	.263	.8250	.0969	3.51	19 58.6	.3073	13 11.3	2.70
	2	.274	.8234	.0978	3.54	20 2.6	.3077	13 7.8	2.57
	3	.284	.8217	.0986	3.57	20 6.6	.3080	13 4.2	2.44
	4	.295	.8199	.0994	3.61	20 10.5	.3083	13 0.6	2.31
	5	.306	.8180	.1002	3.65	20 14.3	.3086	12 57.1	2.18
	6	.317	.8161	.1009	3.69	20 18.0	.3089	12 53.5	2.05
	7	.328	.8141	.1016	3.73	20 21.7	.3092	12 50.0	1.91
	8	.339	.8120	.1023	3.77	20 25.2	.3095	12 46.5	1.78
	9	.350	.8099	.1029	3.81	20 28.7	.3097	12 42.9	1.65
	10	+0.361	−0.8077	+0.1035	3.86	20 32.1	1.3099	12 39.4	−1.52
	11	.372	.8054	.1040	3.90	20 35.4	.3101	12 35.9	1.38
	12	.383	.8030	.1045	3.95	20 38.6	.3103	12 32.4	1.25
	13	.394	.8006	.1049	4.00	20 41.7	.3105	12 28.9	1.11
	14	.405	.7981	.1052	4.05	20 44.7	.3106	12 25.3	0.98
	15	.416	.7956	.1055	4.10	20 47.7	.3107	12 21.8	0.84
	16	.428	.7930	.1058	4.15	20 50.5	.3108	12 18.3	0.71
	17	.439	.7903	.1060	4.20	20 53.3	.3109	12 14.8	0.57
	18	.450	.7876	.1062	4.26	20 55.9	.3110	12 11.3	0.44
	19	.461	.7848	.1063	4.31	20 58.5	.3111	12 7.8	0.30
	20	+0.473	−0.7820	+0.1064	4.37	21 1.0	1.3111	12 4.3	−0.17
	21	.484	.7791	.1065	4.43	21 3.4	.3111	12 0.8	−0.03
	22	.495	.7762	.1065	4.49	21 5.7	.3111	11 57.3	+0.10
	23	.506	.7732	.1065	4.55	21 8.0	.3111	11 53.8	0.24
	24	.518	.7702	.1064	4.61	21 10.1	.3111	11 50.3	0.37
	25	.529	.7672	.1062	4.67	21 12.2	.3110	11 46.8	0.51
	26	.540	.7642	.1060	4.73	21 14.2	.3109	11 43.3	0.64
	27	.551	.7611	.1057	4.79	21 16.1	.3108	11 39.8	0.78
	28	.562	.7580	.1054	4.85	21 18.0	.3107	11 36.3	0.91
	29	.574	.7548	.1050	4.92	21 19.8	.3105	11 32.8	1.05

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	30	+0.s585	−0.7516	+0.1046	4.″98	$21^h21^m.5$	1.3104	$11^h29^m.3$	+1.″18
Juli	1	.596	.7483	.1042	5.05	21 23.2	.3102	11 25.8	1.32
	2	.607	.7450	.1037	5.11	21 24.8	.3100	11 22.3	1.45
	3	.618	.7418	.1032	5.18	21 26.3	.3098	11 18.7	1.59
	4	.629	.7385	.1026	5.24	21 27.7	.3096	11 15.2	1.72
	5	.640	.7352	.1020	5.31	21 29.1	.3093	11 11.7	1.85
	6	.651	.7319	.1013	5.37	21 30.4	.3091	11 8.2	1.98
	7	.662	.7286	.1006	5.44	21 31.6	.3088	11 4.6	2.12
	8	.673	.7253	.0998	5.51	21 32.8	.3085	11 1.1	2.25
	9	.684	.7219	.0990	5.58	21 34.0	.3082	10 57.6	2.38
	10	+0.695	−0.7186	+0.0982	5.64	21 35.1	1.3078	10 54.0	+2.50
	11	.705	.7152	.0973	5.71	21 36.2	.3075	10 50.4	2.63
	12	.716	.7118	.0964	5.78	21 37.2	.3071	10 46.9	2.76
	13	.727	.7084	.0954	5.85	21 38.2	.3068	10 43.3	2.89
	14	.737	.7050	.0944	5.92	21 39.1	.3063	10 39.7	3.01
	15	.748	.7016	.0934	5.98	21 40.0	.3059	10 36.2	3.14
	16	.758	.6982	.0923	6.05	21 40.8	.3055	10 32.6	3.26
	17	.769	.6948	.0912	6.12	21 41.6	.3051	10 29.0	3.39
	18	.779	.6914	.0901	6.19	21 42.4	.3046	10 25.4	3.51
	19	.789	.6881	.0889	6.25	21 43.1	.3042	10 21.8	3.63
	20	+0.799	−0.6847	+0.0877	6.32	21 43.8	1.3037	10 18.1	+3.75
	21	.810	.6814	.0864	6.39	21 44.4	.3032	10 14.5	3.87
	22	.820	.6780	.0852	6.46	21 45.0	.3027	10 10.9	3.99
	23	.830	.6747	.0839	6.52	21 45.6	.3022	10 7.2	4.11
	24	.840	.6713	.0826	6.59	21 46.2	.3016	10 3.6	4.23
	25	.850	.6680	.0812	6.66	21 46.7	.3011	9 59.9	4.35
	26	.859	.6647	.0799	6.72	21 47.2	.3005	9 56.2	4.46
	27	.869	.6614	.0785	6.79	21 47.7	.3000	9 52.5	4.57
	28	.879	.6581	.0771	6.86	21 48.2	.2994	9 48.8	4.68
	29	.888	.6548	.0757	6.92	21 48.6	.2989	9 45.1	4.79
	30	+0.897	−0.6515	+0.0743	6.99	21 49.0	1.2983	9 41.4	+4.90
	31	.907	.6482	.0729	7.05	21 49.4	.2977	9 37.7	5.01
August	1	.916	.6450	.0714	7.12	21 49.7	.2971	9 33.9	5.12
	2	.926	.6418	.0699	7.18	21 50.1	.2965	9 30.2	5.22
	3	.935	.6386	.0684	7.25	21 50.4	.2959	9 26.4	5.33
	4	.944	.6354	.0668	7.31	21 50.8	.2953	9 22.7	5.43
	5	.953	.6323	.0653	7.37	21 51.1	.2947	9 18.9	5.53
	6	.962	.6292	.0638	7.44	21 51.3	.2940	9 15.1	5.63
	7	.970	.6261	.0623	7.50	21 51.6	.2934	9 11.3	5.73
	8	.979	.6230	.0608	7.56	21 51.8	.2928	9 7.4	5.82
	9	+0.988	−0.6199	+0.0592	7.62	21 52.1	1.2922	9 3.6	+5.92
	10	0.996	.6168	.0577	7.68	21 52.3	.2915	8 59.8	6.01
	11	1.005	.6138	.0562	7.74	21 52.5	.2909	8 55.9	6.10
	12	.013	.6108	.0547	7.80	21 52.7	.2903	8 52.0	6.19
	13	.021	.6078	.0531	7.86	21 52.9	.2896	8 48.1	6.28
	14	.029	.6049	.0516	7.92	21 53.1	.2890	8 44.2	6.37
	15	.037	.6020	.0501	7.98	21 53.3	.2884	8 40.3	6.45
	16	.045	.5991	.0486	8.04	21 53.4	.2878	8 36.4	6.53
	17	.053	.5962	.0471	8.10	21 53.6	.2872	8 32.5	6.61
	18	.061	.5934	.0457	8.15	21 53.8	.2866	8 28.5	6.69

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	19	+1.8069	−0.5906	+0.0442	8.″21	$21^h53^m.9$	1.2860	$8^h24^m.5$	+6.″77
	20	.077	.5878	.0428	8.26	21 54.1	.2854	8 20.6	6.85
	21	.084	.5850	.0413	8.32	21 54.2	.2848	8 16.6	6.92
	22	.092	.5823	.0399	8.37	21 54.3	.2842	8 12.6	6.99
	23	.100	.5796	.0385	8.43	21 54.5	.2836	8 8.6	7.06
	24	.107	.5770	.0372	8.48	21 54.6	.2830	8 4.5	7.13
	25	.114	.5744	.0359	8.53	21 54.8	.2825	8 0.5	7.19
	26	.122	.5718	.0346	8.59	21 54.9	.2819	7 56.4	7.26
	27	.129	.5692	.0333	8.64	21 55.1	.2814	7 52.4	7.32
	28	.136	.5667	.0321	8.69	21 55.2	.2809	7 48.3	7.38
	29	+1.143	−0.5641	+0.0309	8.74	21 55.4	1.2804	7 44.2	+7.44
	30	.150	.5616	.0297	8.79	21 55.5	.2799	7 40.1	7.49
	31	.157	.5591	.0286	8.84	21 55.7	.2794	7 36.0	7.54
Septbr.	1	.164	.5567	.0275	8.89	21 55.8	.2789	7 31.9	7.59
	2	.171	.5543	.0264	8.94	21 56.0	.2785	7 27.8	7.64
	3	.177	.5519	.0254	8.98	21 56.1	.2781	7 23.6	7.69
	4	.184	.5495	.0244	9.03	21 56.3	.2777	7 19.5	7.73
	5	.191	.5472	.0235	9.08	21 56.5	.2773	7 15.3	7.78
	6	.197	.5449	.0226	9.12	21 56.6	.2769	7 11.2	7.82
	7	.204	.5427	.0218	9.17	21 56.8	.2765	7 7.0	7.85
	8	+1.211	−0.5404	+0.0210	9.21	21 57.0	1.2762	7 2.8	+7.89
	9	.217	.5382	.0202	9.26	21 57.2	.2758	6 58.6	7.92
	10	.223	.5360	.0195	9.30	21 57.4	.2755	6 54.4	7.95
	11	.230	.5339	.0188	9.35	21 57.6	.2753	6 50.2	7.98
	12	.236	.5317	.0182	9.39	21 57.8	.2750	6 46.0	8.01
	13	.243	.5296	.0176	9.43	21 58.1	.2748	6 41.8	8.04
	14	.249	.5275	.0171	9.48	21 58.3	.2745	6 37.5	8.06
	15	.255	.5254	.0167	9.52	21 58.5	.2743	6 33.3	8.08
	16	.261	.5233	.0163	9.56	21 58.8	.2742	6 29.0	8.09
	17	.268	.5213	.0160	9.60	21 59.0	.2740	6 24.8	8.11
	18	+1.274	−0.5193	+0.0157	9.64	21 59.3	1.2739	6 20.5	+8.12
	19	.280	.5173	.0154	9.68	21 59.6	.2738	6 16.3	8.13
	20	.286	.5153	.0152	9.72	21 59.9	.2737	6 12.0	8.14
	21	.293	.5133	.0151	9.76	22 0.2	.2737	6 7.7	8.15
	22	.299	.5113	.0150	9.80	22 0.5	.2736	6 3.5	8.15
	23	.305	.5094	.0150	9.84	22 0.8	.2736	5 59.2	8.15
	24	.311	.5075	.0150	9.88	22 1.1	.2736	5 54.9	8.15
	25	.317	.5056	.0151	9.91	22 1.5	.2737	5 50.6	8.14
	26	.323	.5037	.0152	9.95	22 1.8	.2737	5 46.4	8.14
	27	.330	.5018	.0154	9.99	22 2.2	.2738	5 42.1	8.13
	28	+1.336	−0.4999	+0.0157	10.03	22 2.6	1.2739	5 37.8	+8.12
	29	.342	.4980	.0160	10.06	22 2.9	.2741	5 33.5	8.10
	30	.348	.4961	.0164	10.10	22 3.3	.2742	5 29.2	8.09
Oktbr.	1	.355	.4943	.0169	10.14	22 3.7	.2744	5 25.0	8.07
	2	.361	.4924	.0174	10.18	22 4.1	.2746	5 20.7	8.05
	3	.367	.4906	.0179	10.21	22 4.6	.2749	5 16.4	8.02
	4	.374	.4887	.0185	10.25	22 5.0	.2751	5 12.1	8.00
	5	.380	.4869	.0192	10.29	22 5.5	.2754	5 7.9	7.97
	6	.387	.4851	.0199	10.32	22 6.0	.2757	5 3.6	7.94
	7	.393	.4833	.0206	10.36	22 6.4	.2760	4 59.3	7.91

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	8	$+1^s.400$	−0.4815	+0.0214	10".40	$22^h\ 6^m.9$	1.2763	$4^h55^m.1$	+7".87
	9	.406	.4797	.0222	10.43	22 7.4	.2767	4 50.8	7.84
	10	.413	.4778	.0231	10.47	22 7.9	.2771	4 46.6	7.80
	11	.420	.4760	.0240	10.51	22 8.4	.2775	4 42.3	7.75
	12	.426	.4741	.0250	10.54	22 9.0	.2779	4 38.1	7.71
	13	.433	.4723	.0260	10.58	22 9.5	.2783	4 33.8	7.66
	14	.440	.4704	.0271	10.62	22 10.1	.2788	4 29.6	7.61
	15	.447	.4686	.0282	10.66	22 10.6	.2793	4 25.4	7.56
	16	.454	.4667	.0294	10.69	22 11.2	.2798	4 21.2	7.51
	17	.461	.4648	.0306	10.73	22 11.8	.2803	4 17.0	7.45
	18	+1.468	−0.4629	+0.0318	10.77	22 12.3	1.2808	4 12.8	+7.39
	19	.476	.4609	.0331	10.81	22 12.9	.2813	4 8.6	7.33
	20	.483	.4590	.0344	10.85	22 13.5	.2819	4 4.4	7.27
	21	.490	4570	.0358	10.89	22 14.2	.2824	4 0.2	7.20
	22	.498	.4550	.0371	10.93	22 14.8	.2830	3 56.1	7.14
	23	.505	.4530	.0385	10.97	22 15.4	.2836	3 51.9	7.07
	24	.513	.4510	.0399	11.01	22 16.1	.2841	3 47.7	7.00
	25	.521	.4489	.0414	11.05	22 16.7	.2847	3 43.6	6.92
	26	.529	.4468	.0428	11.09	22 17.4	.2854	3 39.4	6.85
	27	.536	.4447	.0443	11.13	22 18.0	.2860	3 35.3	6.77
	28	+1.544	−0.4426	+0.0458	11.18	22 18.7	1.2866	3 31.2	+6.69
	29	.552	.4405	.0473	11.22	22 19.4	.2872	3 27.1	6.61
	30	.561	.4383	.0488	11.26	22 20.0	.2879	3 23.0	6.52
	31	.569	.4361	.0504	11.31	22 20.7	.2885	3 18.9	6.43
Novbr.	1	.577	.4339	.0520	11.35	22 21.4	.2892	3 14.9	6.35
	2	.586	.4316	.0536	11.40	22 22.1	.2898	3 10.8	6.26
	3	.594	.4293	.0552	11.44	22 22.7	.2905	3 6.8	6.16
	4	.603	.4270	.0568	11.49	22 23.4	.2911	3 2.7	6.07
	5	.612	.4247	.0583	11.54	22 24.1	.2918	2 58.7	5.97
	6	.620	.4223	.0599	11.58	22 24.8	.2924	2 54.6	5.88
	7	+1.629	−0.4199	+0.0615	11.63	22 25.5	1.2931	2 50.6	+5.78
	8	.638	.4174	.0631	11.68	22 26.1	.2938	2 46.6	5.67
	9	.648	.4149	.0647	11.73	22 26.8	.2944	2 42.6	5.57
	10	.657	.4124	.0663	11.78	22 27.5	.2951	2 38.7	5.47
	11	.666	.4098	.0679	11.83	22 28.2	.2957	2 34.7	5.36
	12	.676	.4072	.0695	11.89	22 28.8	.2963	2 30.7	5.25
	13	.685	.4046	.0711	11.94	22 29.5	.2970	2 26.8	5.14
	14	.695	.4019	.0726	11.99	22 30.2	.2976	2 22.9	5.03
	15	.704	.3992	.0741	12.05	22 30.9	.2982	2 18.9	4.91
	16	.714	.3965	.0756	12.10	22 31.5	.2988	2 15.0	4.80
	17	+1.724	−0.3937	+0.0771	12.16	22 32.2	1.2994	2 11.1	+4.68
	18	.734	.3909	.0786	12.21	22 32.8	.3000	2 7.2	4.56
	19	.744	.3881	.0801	12.27	22 33.5	.3006	2 3.3	4.44
	20	.754	.3852	.0815	12.33	22 34.1	.3012	1 59.4	4.32
	21	.765	.3823	.0829	12.39	22 34.8	.3017	1 55.5	4.20
	22	.775	.3793	.0843	12.45	22 35.4	.3023	1 51.7	4.08
	23	.786	.3763	.0857	12.51	22 36.0	.3029	1 47.8	3.95
	24	.796	.3732	.0870	12.57	22 36.6	.3034	1 43.9	3.82
	25	.807	.3701	.0883	12.63	22 37.2	.3039	1 40.1	3.70
	26	.817	.3670	.0896	12.69	22 37.8	.3044	1 36.3	3.57

1835

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	27	+1.8828	−0.3639	+0.0908	12.″76	$22^h38.^m4$	1.3049	$1^h32.^m4$	+3.″44
	28	.839	.3607	.0920	12.82	22 38.9	.3054	1 28.6	3.30
	29	.850	.3575	.0931	12.88	22 39.5	.3058	1 24.8	3.17
	30	.861	.3542	.0942	12.95	22 40.0	.3063	1 21.0	3.04
Dezbr.	1	.872	.3509	.0953	13.02	22 40.6	.3067	1 17.2	2.90
	2	.883	.3476	.0963	13.08	22 41.1	.3071	1 13.4	2.77
	3	.895	.3443	.0973	13.15	22 41.6	.3075	1 9.6	2.63
	4	.906	.3409	.0982	13.22	22 42.1	.3079	1 5.8	2.50
	5	.917	.3375	.0991	13.29	22 42.6	.3082	1 2.0	2.36
	6	.929	.3340	.0999	13.35	22 43.1	.3085	0 58.2	2.22
	7	+1.940	−0.3305	+0.1007	13.42	22 43.6	1.3088	0 54.5	+2.08
	8	.952	.3270	.1014	13.49	22 44.0	.3091	0 50.7	1.94
	9	.963	.3235	.1021	13.57	22 44.5	.3094	0 46.9	1.80
	10	.975	.3199	.1028	13.64	22 44.9	.3097	0 43.2	1.66
	11	.986	.3163	.1034	13.71	22 45.3	.3099	0 39.4	1.52
	12	1.998	.3127	.1039	13.78	22 45.7	.3101	0 35.7	1.37
	13	2.010	.3091	.1044	13.85	22 46.1	.3103	0 31.9	1.23
	14	.021	.3055	.1049	13.93	22 46.5	.3105	0 28.2	1.09
	15	.033	.3018	.1053	14.00	22 46.9	.3106	0 24.4	0.95
	16	.045	.2981	.1057	14.07	22 47.2	.3108	0 20.7	0.80
	17	+2.057	−0.2944	+0.1060	14.15	22 47.5	1.3109	0 17.0	+0.66
	18	.069	.2907	.1062	14.22	22 47.9	.3110	0 13.2	0.51
	19	.080	.2870	.1063	14.30	22 48.2	.3111	0 9.5	0.37
	20	.092	.2832	.1064	14.37	22 48.5	.3111	0 5.7	0.22
	21	.104	.2794	.1065	14.45	22 48.7	.3111	0 2.0	+0.08
	22	.116	.2756	.1065	14.52	22 49.0	.3111	23 58.3	−0.07
	23	.128	.2718	.1065	14.60	22 49.3	.3111	23 54.5	0.21
	24	.140	.2680	.1064	14.68	22 49.5	.3111	23 50.8	0.36
	25	.152	.2642	.1062	14.75	22 49.7	.3110	23 47.0	0.50
	26	.164	.2604	.1060	14.83	22 50.0	.3109	23 43.3	0.65
	27	+2.175	−0.2566	+0.1057	14.91	22 50.2	1.3108	23 39.6	−0.79
	28	.187	.2528	.1054	14.98	22 50.3	.3107	23 35.8	0.93
	29	.199	.2490	.1050	15.06	22 50.5	.3105	23 32.1	1.08
	30	.211	.2451	.1046	15.14	22 50.7	.3104	23 28.3	1.22
	31	.223	.2412	.1042	15.21	22 50.9	.3102	23 24.5	1.36

1836

Januar	1	−0.8837	−0.6465	+0.1035	7.″09	$14^h39.^m1$	1.3099	$23^h20.^m8$	−1.″51
	2	.825	.6489	.1029	7.04	14 41.1	.3097	23 17.0	1.65
	3	.814	.6513	.1022	6.99	14 43.1	.3094	23 13.3	1.79
	4	.802	.6536	.1015	6.94	14 45.1	.3092	23 9.5	1.93
	5	.790	.6559	.1008	6.90	14 47.1	.3089	23 5.7	2.07
	6	.779	.6581	.1000	6.86	14 49.2	.3086	23 1.9	2.21
	7	.767	.6602	.0992	6.81	14 51.3	.3082	22 58.1	2.35
	8	.756	.6623	.0983	6.77	14 53.5	.3079	22 54.4	2.49
	9	.745	.6643	.0974	6.73	14 55.7	.3075	22 50.6	2.63
	10	.733	.6663	.0964	6.69	14 57.9	.3071	22 46.7	2.76

1836

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 11	$-0^s.722$	−0.6682	+0.0953	6″.65	$15^h\ 0^m.2$	1.3067	$22^h42^m.9$	−2″.90
12	.711	.6700	.0942	6.62	15 2.4	.3063	22 39.1	3.03
13	.700	.6718	.0931	6.58	15 4.7	.3058	22 35.3	3.17
14	.689	.6735	.0920	6.55	15 7.1	.3054	22 31.5	3.30
15	.678	.6751	.0908	6.51	15 9.4	.3049	22 27.6	3.43
16	.667	.6767	.0896	6.48	15 11.8	.3044	22 23.8	3.56
17	.656	.6782	.0883	6.45	15 14.2	.3039	22 19.9	3.69
18	.646	.6796	.0870	6.42	15 16.6	.3034	22 16.0	3.82
19	.635	.6809	.0857	6.40	15 19.0	.3029	22 12.2	3.95
20	.625	.6822	.0843	6.37	15 21.5	.3023	22 8.3	4.08
21	−0.614	−0.6834	+0.0829	6.35	15 23.9	1.3018	22 4.4	−4.20
22	.604	.6846	.0815	6.32	15 26.4	.3012	22 0.5	4.32
23	.594	.6857	.0800	6.30	15 28.9	.3006	21 56.6	4.45
24	.583	.6867	.0785	6.28	15 31.4	.3000	21 52.7	4.57
25	.573	.6877	.0770	6.26	15 33.9	.2994	21 48.7	4.69
26	.563	.6886	.0755	6.25	15 36.3	.2988	21 44.8	4.80
27	.553	.6894	.0740	6.23	15 38.8	.2982	21 40.8	4.92
28	.544	.6901	.0725	6.21	15 41.3	.2976	21 36.9	5.04
29	.534	.6908	.0710	6.20	15 43.8	.2969	21 32.9	5.15
30	.524	.6915	.0694	6.19	15 46.2	.2963	21 28.9	5.26
31	−0.515	−0.6921	+0.0678	6.17	15 48.7	1.2956	21 24.9	−5.37
Februar 1	.505	.6927	.0662	6.16	15 51.2	.2950	21 20.9	5.48
2	.496	.6932	.0646	6.15	15 53.6	.2943	21 16.9	5.58
3	.487	.6936	.0629	6.14	15 56.0	.2937	21 12.9	5.69
4	.477	.6940	.0613	6.14	15 58.4	.2930	21 8.9	5.79
5	.468	.6943	.0597	6.13	16 0.8	.2923	21 4.8	5.89
6	.460	.6946	.0581	6.12	16 3.2	.2917	21 0.8	5.99
7	.451	.6948	.0565	6.12	16 5.6	.2910	20 56.7	6.08
8	.442	.6950	.0549	6.11	16 7.9	.2904	20 52.6	6.18
9	.434	.6952	.0533	6.11	16 10.2	.2897	20 48.5	6.27
10	−0.425	−0.6953	+0.0517	6.11	16 12.5	1.2890	20 44.4	−6.36
11	.416	.6954	.0501	6.11	16 14.8	.2884	20 40.3	6.45
12	.408	.6954	.0486	6.11	16 17.0	.2877	20 36.2	6.54
13	.400	.6954	.0470	6.11	16 19.3	.2871	20 32.1	6.62
14	.392	.6954	.0455	6.11	16 21.5	.2865	20 27.9	6.70
15	.384	.6954	.0439	6.11	16 23.7	.2858	20 23.7	6.78
16	.376	.6953	.0424	6.11	16 25.9	.2852	20 19.6	6.86
17	.368	.6952	.0409	6.11	16 28.0	.2846	20 15.4	6.94
18	.360	.6951	.0395	6.11	16 30.1	.2840	20 11.2	7.01
19	.352	.6950	.0381	6.12	16 32.2	.2834	20 7.0	7.08
20	−0.345	−0.6948	+0.0367	6.12	16 34.3	1.2828	20 2.8	−7.15
21	.337	.6946	.0353	6.12	16 36.3	.2823	19 58.6	7.22
22	.330	.6944	.0340	6.13	16 38.3	.2817	19 54.4	7.29
23	.322	.6942	.0327	6.13	16 40.3	.2811	19 50.2	7.35
24	.315	.6940	.0314	6.14	16 42.2	.2806	19 45.9	7.41
25	.308	.6938	.0301	6.14	16 44.2	.2801	19 41.7	7.47
26	.300	.6935	.0289	6.15	16 46.1	.2796	19 37.4	7.53
27	.293	.6933	.0278	6.15	16 48.0	.2791	19 33.1	7.58
28	.286	.6930	.0267	6.16	16 49.8	.2786	19 28.9	7.63
29	.279	.6927	.0256	6.16	16 51.7	.2781	19 24.6	7.68

1836

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	1	$-0^s.272$	−0.6925	+0.0246	6″.17	$16^h53^m.5$	1.2777	$19^h20^m.3$	−7″.73
	2	.265	.6922	.0236	6.17	16 55.2	.2773	19 16.0	7.77
	3	.259	.6920	.0227	6.17	16 57.0	.2769	19 11.7	7.81
	4	.252	.6918	.0218	6.18	16 58.7	.2766	19 7.4	7.85
	5	.245	.6916	.0210	6.18	17 0.5	.2762	19 3.1	7.89
	6	.239	.6914	.0202	6.19	17 2.2	.2759	18 58.8	7.92
	7	.232	.6912	.0195	6.19	17 3.9	.2756	18 54.5	7.95
	8	.226	.6910	.0188	6.20	17 5.6	.2753	18 50.2	7.98
	9	.219	.6908	.0182	6.20	17 7.2	.2750	18 45.9	8.01
	10	.213	.6906	.0176	6.20	17 8.9	.2747	18 41.5	8.04
	11	−0.206	−0.6905	+0.0171	6.21	17 10.5	1.2745	18 37.2	−8.06
	12	.200	.6903	.0166	6.21	17 12.1	.2743	18 32.9	8.08
	13	.193	.6902	.0162	6.21	17 13.7	.2742	18 28.5	8.10
	14	.187	.6900	.0159	6.22	17 15.3	.2740	18 24.2	8.11
	15	.180	.6899	.0156	6.22	17 16.9	.2739	18 19.9	8.12
	16	.174	.6898	.0154	6.22	17 18.5	.2738	18 15.5	8.13
	17	.168	.6897	.0152	6.22	17 20.0	.2737	18 11.2	8.14
	18	.161	.6897	.0151	6.22	17 21.6	.2737	18 6.9	8.15
	19	.155	.6897	.0150	6.22	17 23.1	.2736	18 2.6	8.15
	20	.149	.6897	.0150	6.22	17 24.6	.2736	17 58.2	8.15
	21	−0.142	−0.6897	+0.0150	6.22	17 26.2	1.2736	17 53.9	−8.15
	22	.136	.6897	.0151	6.22	17 27.7	.2737	17 49.6	8.14
	23	.130	.6897	.0153	6.22	17 29.2	.2738	17 45.3	8.13
	24	.123	.6897	.0155	6.22	17 30.8	.2739	17 41.0	8.12
	25	.117	.6898	.0158	6.22	17 32.3	.2740	17 36.6	8.11
	26	.111	.6899	.0162	6.22	17 33.9	.2741	17 32.3	8.10
	27	.104	.6901	.0166	6.21	17 35.4	.2743	17 28.0	8.08
	28	.098	.6902	.0170	6.21	17 37.0	.2745	17 23.8	8.06
	29	.091	.6904	.0175	6.21	17 38.5	.2747	17 19.5	8.04
	30	.085	.6906	.0180	6.20	17 40.1	.2749	17 15.2	8.02
	31	−0.078	−0.6908	+0.0186	6.20	17 41.7	1.2752	17 10.9	−7.99
April	1	.072	.6910	.0192	6.20	17 43.3	.2754	17 6.7	7.96
	2	.065	.6912	.0199	6.19	17 44.8	.2757	17 2.4	7.93
	3	.059	.6914	.0207	6.19	17 46.4	.2761	16 58.2	7.90
	4	.052	.6917	.0215	6.18	17 48.0	.2764	16 54.0	7.86
	5	.045	.6919	.0224	6.17	17 49.6	.2768	16 49.7	7.83
	6	.038	.6922	.0233	6.17	17 51.3	.2772	16 45.5	7.79
	7	.032	.6925	.0242	6.16	17 52.9	.2776	16 41.3	7.74
	8	.025	.6928	.0252	6.16	17 54.6	.2780	16 37.1	7.70
	9	.018	.6931	.0262	6.15	17 56.3	.2784	16 32.9	7.65
	10	−0.011	−0.6935	+0.0273	6.15	17 57.9	1.2789	16 28.7	−7.60
	11	−0.004	.6938	.0284	6.14	17 59.6	.2793	16 24.6	7.55
	12	+0.003	.6941	.0296	6.13	18 1.4	.2798	16 20.4	7.50
	13	.010	.6945	.0308	6.13	18 3.1	.2803	16 16.3	7.44
	14	.018	.6948	.0320	6.12	18 4.9	.2808	16 12.1	7.38
	15	.025	.6952	.0332	6.11	18 6.7	.2813	16 8.0	7.32
	16	.032	.6955	.0344	6.11	18 8.5	.2819	16 3.9	7.26
	17	.040	.6959	.0357	6.10	18 10.3	.2824	15 59.8	7.20
	18	.047	.6962	.0370	6.09	18 12.1	.2830	15 55.7	7.13
	19	.055	.6966	.0384	6.09	18 14.1	.2835	15 51.7	7.06

1836

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	20	+0.^{s}063	−0.6969	+0.0398	6.″08	$18^h16^m.0$	1.2841	$15^h47^m.6$	−6.″99
	21	.070	.6972	.0412	6.07	18 17.9	.2847	15 43.6	6.92
	22	.078	.6975	.0426	6.07	18 19.9	.2853	15 39.6	6.85
	23	.086	.6978	.0441	6.06	18 21.9	.2859	15 35.5	6.77
	24	.094	.6980	.0456	6.05	18 23.9	.2865	15 31.5	6.70
	25	.102	.6983	.0471	6.05	18 25.9	.2871	15 27.5	6.62
	26	.110	.6985	.0486	6.04	18 28.0	.2878	15 23.6	6.53
	27	.119	.6988	.0501	6.04	18 30.1	.2884	15 19.6	6.45
	28	.127	.6990	.0516	6.04	18 32.2	.2890	15 15.6	6.36
	29	.135	.6992	.0532	6.03	18 34.3	.2897	15 11.7	6.28
	30	+0.144	−0.6993	+0.0547	6.03	18 36.5	1.2903	15 7.8	−6.19
Mai	1	.152	.6994	.0563	6.03	18 38.6	.2909	15 3.9	6.10
	2	.161	.6995	.0578	6.02	18 40.8	.2916	15 0.0	6.00
	3	.170	.6996	.0594	6.02	18 43.0	.2922	14 56.1	5.91
	4	.179	.6996	.0609	6.02	18 45.3	.2928	14 52.3	5.82
	5	.188	.6996	.0625	6.02	18 47.6	.2934	14 48.4	5.72
	6	.197	.6996	.0640	6.02	18 49.9	.2941	14 44.6	5.62
	7	.206	.6995	.0655	6.02	18 52.2	.2947	14 40.7	5.52
	8	.215	.6994	.0670	6.03	18 54.5	.2953	14 36.9	5.42
	9	.224	.6993	.0685	6.03	18 56.9	.2959	14 33.1	5.32
	10	+0.234	−0.6991	+0.0700	6.03	18 59.2	1.2965	14 29.3	−5.21
	11	.243	.6989	.0715	6.04	19 1.6	.2971	14 25.5	5.10
	12	.253	.6986	.0730	6.04	19 4.0	.2977	14 21.8	5.00
	13	.262	.6983	.0745	6.05	19 6.4	.2983	14 18.0	4.89
	14	.272	.6979	.0759	6.06	19 8.8	.2989	14 14.3	4.77
	15	.282	.6975	.0773	6.07	19 11.3	.2995	14 10.5	4.66
	16	.291	.6970	.0787	6.08	19 13.7	.3001	14 6.8	4.55
	17	.301	.6965	.0801	6.09	19 16.2	.3006	14 3.1	4.44
	18	.311	.6959	.0815	6.10	19 18.6	.3012	13 59.4	4.32
	19	.321	.6952	.0828	6.11	19 21.0	.3017	13 55.7	4.21
	20	+0.332	−0.6945	+0.0841	6.13	19 23.5	1.3022	13 52.0	−4.09
	21	.342	.6937	.0854	6.14	19 26.0	.3028	13 48.4	3.97
	22	.352	.6929	.0867	6.16	19 28.4	.3033	13 44.7	3.85
	23	.363	.6920	.0879	6.17	19 30.9	.3038	13 41.1	3.73
	24	.373	.6911	.0891	6.19	19 33.4	.3042	13 37.4	3.60
	25	.384	.6901	.0903	6.21	19 35.8	.3047	13 33.8	3.48
	26	.395	.6891	.0914	6.23	19 38.2	.3052	13 30.2	3.36
	27	.405	.6880	.0925	6.26	19 40.6	.3056	13 26.6	3.24
	28	.416	.6868	.0936	6.28	19 43.0	.3060	13 23.0	3.11
	29	.427	.6855	.0947	6.31	19 45.5	.3064	13 19.4	2.98
	30	+0.437	−0.6842	+0.0957	6.33	19 47.9	1.3068	13 15.8	−2.86
	31	.448	.6828	.0967	6.36	19 50.2	.3072	13 12.2	2.73
Juni	1	.459	.6814	.0976	6.39	19 52.6	.3076	13 8.6	2.60
	2	.470	.6799	.0985	6.42	19 54.9	.3079	13 5.1	2.47
	3	.481	.6784	.0993	6.45	19 57.2	.3083	13 1.5	2.34
	4	.492	.6768	.1001	6.48	19 59.5	.3086	12 58.0	2.21
	5	.504	.6751	.1008	6.52	20 1.8	.3089	12 54.4	2.08
	6	.515	.6733	.1015	6.55	20 4.1	.3091	12 50.9	1.95
	7	.526	.6715	.1021	6.59	20 6.3	.3094	12 47.3	1.81
	8	.537	.6696	.1027	6.62	20 8.5	.3096	12 43.8	1.68

1836

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	9	$+0^s.549$	−0.6677	+0.1033	6″66	$20^h10^m.7$	1.3099	$12^h40^m.2$	−1″55
	10	.560	.6657	.1038	6.70	20 12.8	.3101	12 36.7	1.41
	11	.571	.6636	.1043	6.75	20 14.9	.3103	12 33.2	1.28
	12	.583	.6615	.1047	6.79	20 16.9	.3104	12 29.7	1.15
	13	.594	.6593	.1051	6.83	20 19.0	.3106	12 26.2	1.01
	14	.605	.6571	.1054	6.88	20 21.0	.3107	12 22.7	0.88
	15	.617	.6548	.1057	6.92	20 23.0	.3108	12 19.1	0.74
	16	.628	.6525	.1060	6.97	20 24.9	.3109	12 15.6	0.61
	17	.640	.6501	.1062	7.02	20 26.8	.3110	12 12.1	0.47
	18	.651	.6477	.1063	7.06	20 28.7	.3111	12 8.6	0.34
	19	+0.663	−0.6452	+0.1064	7.11	20 30.5	1.3111	12 5.1	−0.20
	20	.674	.6427	.1065	7.16	20 32.3	.3111	12 1.6	−0.06
	21	.686	.6402	.1065	7.22	20 34.0	.3111	11 58.2	+0.07
	22	.697	.6376	.1064	7.27	20 35.7	.3111	11 54.7	0.21
	23	.709	.6349	.1063	7.32	20 37.4	.3111	11 51.2	0.34
	24	.720	.6322	.1062	7.37	20 39.1	.3110	11 47.7	0.48
	25	.732	.6295	.1060	7.43	20 40.7	.3109	11 44.2	0.61
	26	.743	.6267	.1057	7.49	20 42.3	.3108	11 40.7	0.75
	27	.755	.6239	.1054	7.54	20 43.8	.3107	11 37.1	0.88
	28	.766	.6211	.1051	7.60	20 45.3	.3106	11 33.6	1.02
	29	+0.778	−0.6182	+0.1047	7.66	20 46.8	1.3104	11 30.1	+1.15
	30	.789	.6153	.1043	7.71	20 48.2	.3103	11 26.6	1.29
Juli	1	.800	.6123	.1038	7.77	20 49.6	.3101	11 23.1	1.42
	2	.812	.6094	.1033	7.83	20 50.9	.3099	11 19.6	1.55
	3	.823	.6064	.1028	7.89	20 52.2	.3097	11 16.1	1.69
	4	.834	.6034	.1022	7.95	20 53.5	.3094	11 12.5	1.82
	5	.846	.6004	.1015	8.01	20 54.7	.3091	11 9.0	1.95
	6	.857	.5974	.1008	8.07	20 55.9	.3089	11 5.5	2.08
	7	.868	.5943	.1000	8.13	20 57.1	.3086	11 2.0	2.21
	8	.879	.5912	.0992	8.20	20 58.3	.3083	10 58.4	2.34
	9	+0.890	−0.5881	+0.0984	8.26	20 59.4	1.3079	10 54.9	+2.47
	10	.901	.5850	.0975	8.32	21 0.5	.3076	10 51.3	2.60
	11	.912	.5818	.0966	8.39	21 1.5	.3072	10 47.7	2.73
	12	.923	.5787	.0956	8.45	21 2.5	.3068	10 44.2	2.86
	13	.934	.5755	.0946	8.51	21 3.5	.3064	10 40.6	2.98
	14	.945	.5723	.0936	8.58	21 4.4	.3060	10 37.0	3.11
	15	.955	.5691	.0925	8.64	21 5.4	.3056	10 33.4	3.23
	16	.966	.5659	.0914	8.70	21 6.3	.3052	10 29.9	3.36
	17	.977	.5627	.0903	8.77	21 7.1	.3047	10 26.3	3.48
	18	.987	.5595	.0892	8.83	21 8.0	.3043	10 22.6	3.60
	19	+0.998	−0.5563	+0.0880	8.90	21 8.8	1.3038	10 19.0	+3.72
	20	1.008	.5532	.0868	8.96	21 9.6	.3033	10 15.4	3.84
	21	.019	.5500	.0856	9.02	21 10.3	.3028	10 11.8	3.96
	22	.029	.5468	.0843	9.09	21 11.1	.3023	10 8.1	4.08
	23	.039	.5436	.0830	9.15	21 11.8	.3018	10 4.4	4.20
	24	.049	.5404	.0817	9.22	21 12.5	.3012	10 0.8	4.32
	25	.059	.5372	.0803	9.28	21 13.1	.3007	9 57.1	4.43
	26	.069	.5340	.0789	9.34	21 13.8	.3001	9 53.4	4.55
	27	.079	.5308	.0775	9.41	21 14.4	.2996	9 49.7	4.66
	28	.089	.5276	.0761	9.47	21 15.0	.2990	9 46.0	4.77

1836

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	29	$+1^s.099$	−0.5245	+0.0746	9″.53	$21^h15^m.6$	1.2984	$9^h42^m.3$	+4″.88
	30	.108	.5213	.0732	9.60	21 16.1	.2979	9 38.6	4.98
	31	.118	.5182	.0717	9.66	21 16.7	.2973	9 34.8	5.09
August	1	.127	.5151	.0702	9.72	21 17.2	.2966	9 31.1	5.20
	2	.137	.5120	.0687	9.79	21 17.7	.2960	9 27.3	5.30
	3	.146	.5089	.0672	9.85	21 18.2	.2954	9 23.6	5.41
	4	.155	.5058	.0657	9.91	21 18.7	.2948	9 19.8	5.51
	5	.164	.5027	.0641	9.97	21 19.2	.2942	9 16.0	5.61
	6	.174	.4997	.0626	10.03	21 19.6	.2936	9 12.2	5.70
	7	.183	.4967	.0611	10.09	21 20.0	.2930	9 8.4	5.80
	8	+1.191	−0.4937	+0.0596	10.15	21 20.5	1.2923	9 4.5	+5.90
	9	.200	.4907	.0580	10.21	21 20.9	.2917	9 0.7	5.99
	10	.209	.4877	.0565	10.27	21 21.3	.2911	8 56.8	6.08
	11	.217	.4848	.0550	10.33	21 21.7	.2904	8 52.9	6.17
	12	.226	.4819	.0535	10.39	21 22.1	.2898	8 49.1	6.26
	13	.235	.4790	.0520	10.45	21 22.4	.2892	8 45.2	6.35
	14	.243	.4762	.0505	10.50	21 22.8	.2885	8 41.3	6.43
	15	.251	.4733	.0490	10.56	21 23.1	.2879	8 37.3	6.51
	16	.259	.4705	.0475	10.62	21 23.5	.2873	8 33.4	6.59
	17	.268	.4677	.0460	10.67	21 23.8	.2867	8 29.5	6.67
	18	+1.276	−0.4649	+0.0446	10.73	21 24.1	1.2861	8 25.5	+6.75
	19	.284	.4622	.0431	10.78	21 24.5	.2855	8 21.5	6.83
	20	.292	.4595	.0417	10.84	21 24.8	.2849	8 17.5	6.90
	21	.299	.4568	.0403	10.89	21 25.1	.2843	8 13.5	6.97
	22	.307	.4542	.0389	10.94	21 25.4	.2837	8 9.5	7.04
	23	.315	.4516	.0375	11.00	21 25.7	.2832	8 5.5	7.11
	24	.322	.4490	.0362	11.05	21 26.0	.2826	8 1.5	7.18
	25	.330	.4464	.0349	11.10	21 26.3	.2821	7 57.4	7.24
	26	.337	.4439	.0336	11.15	21 26.6	.2815	7 53.4	7.31
	27	.345	.4414	.0324	11.20	21 26.9	.2810	7 49.3	7.37
	28	+1.352	−0.4389	+0.0312	11.25	21 27.2	1.2805	7 45.2	+7.42
	29	.359	.4364	.0300	11.30	21 27.4	.2800	7 41.1	7.48
	30	.367	.4340	.0289	11.35	21 27.7	.2795	7 37.0	7.53
	31	.374	.4316	.0278	11.40	21 28.0	.2791	7 32.9	7.58
Septbr.	1	.381	.4292	.0267	11.44	21 28.3	.2786	7 28.8	7.63
	2	.388	.4268	.0257	11.49	21 28.6	.2782	7 24.6	7.68
	3	.395	.4245	.0247	11.54	21 28.9	.2778	7 20.5	7.72
	4	.402	.4222	.0237	11.58	21 29.2	.2774	7 16.3	7.77
	5	.409	.4200	.0228	11.63	21 29.5	.2770	7 12.2	7.81
	6	.416	.4178	.0219	11.67	21 29.7	.2766	7 8.0	7.84
	7	+1.422	−0.4156	+0.0211	11.72	21 30.0	1.2762	7 3.8	+7.88
	8	.429	.4134	.0203	11.76	21 30.3	.2759	6 59.6	7.91
	9	.436	.4113	.0196	11.80	21 30.6	.2756	6 55.4	7.95
	10	.442	.4092	.0190	11.85	21 30.9	.2753	6 51.2	7.98
	11	.449	.4071	.0184	11.89	21 31.2	.2751	6 47.0	8.01
	12	.456	.4050	.0178	11.93	21 31.5	.2748	6 42.8	8.03
	13	.462	.4029	.0173	11.97	21 31.9	.2746	6 38.6	8.05
	14	.469	.4009	.0168	12.01	21 32.2	.2744	6 34.3	8.07
	15	.475	.3989	.0164	12.05	21 32.5	.2742	6 30.1	8.09
	16	.482	.3969	.0160	12.09	21 32.9	.2741	6 25.8	8.11

1836

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Septbr. 17	$+1^s.488$	−0.3949	+0.0157	12″.13	$21^h33^m.2$	1.2739	$6^h21^m.6$	+8″.12
18	.495	.3930	.0154	12.17	21 33.5	.2738	6 17.3	8.13
19	.501	.3911	.0152	12.21	21 33.9	.2738	6 13.0	8.14
20	.508	.3892	.0151	12.25	21 34.3	.2737	6 8.8	8.14
21	.514	.3873	.0150	12.29	21 34.6	.2737	6 4.5	8.15
22	.520	.3854	.0150	12.32	21 35.0	.2736	6 0.2	8.15
23	.527	.3836	.0150	12.36	21 35.4	.2736	5 56.0	8.15
24	.533	.3817	.0151	12.40	21 35.8	.2737	5 51.7	8.14
25	.540	.3799	.0152	12.43	21 36.2	.2737	5 47.4	8.14
26	.546	.3781	.0154	12.47	21 36.6	.2738	5 43.1	8.13
27	+1.553.	−0.3763	+0.0156	12.51	21 37.0	1.2739	5 38.8	+8.12
28	.559	.3745	.0159	12.54	21 37.4	.2740	5 34.5	8.11
29	.566	.3728	.0163	12.58	21 37.9	.2742	5 30.3	8.09
30	.572	.3710	.0167	12.61	21 38.3	.2744	5 26.0	8.07
Oktbr. 1	.579	.3693	.0172	12.65	21 38.7	.2746	5 21.7	8.05
2	.585	.3675	.0177	12.68	21 39.2	.2748	5 17.4	8.03
3	.592	.3658	.0183	12.72	21 39.7	.2751	5 13.2	8.00
4	.599	.3640	.0189	12.75	21 40.1	.2753	5 8.9	7.98
5	.605	.3623	.0196	12.79	21 40.6	.2756	5 4.6	7.95
6	.612	.3606	.0203	12.82	21 41.1	.2759	5 0.4	7.91
7	+1.619	−0.3589	+0.0211	12.85	21 41.6	1.2763	4 56.1	+7.88
8	.625	.3572	.0220	12.89	21 42.1	.2766	4 51.9	7.84
9	.632	.3555	.0229	12.92	21 42.7	.2770	4 47.6	7.80
10	.639	.3538	.0238	12.96	21 43.2	.2774	4 43.3	7.76
11	.646	.3521	.0248	12.99	21 43.7	.2778	4 39.1	7.72
12	.654	.3504	.0258	13.03	21 44.3	.2782	4 34.9	7.67
13	.661	.3486	.0269	13.06	21 44.8	.2787	4 30.6	7.62
14	.668	.3469	.0280	13.10	21 45.4	.2791	4 26.4	7.57
15	.675	.3451	.0291	13.13	21 46.0	.2796	4 22.2	7.52
16	.682	.3434	.0303	13.17	21 46.6	.2801	4 18.0	7.46
17	+1.690	−0.3416	+0.0315	13.20	21 47.2	1.2807	4 13.8	+7.41
18	.697	.3398	.0328	13.24	21 47.8	.2812	4 9.6	7.35
19	.705	.3380	.0341	13.27	21 48.4	.2817	4 5.4	7.28
20	.712	.3362	.0354	13.31	21 49.0	.2823	4 1.2	7.22
21	.720	.3344	.0367	13.35	21 49.6	.2828	3 57.1	7.15
22	.728	.3326	.0381	13.38	21 50.2	.2834	3 52.9	7.08
23	.736	.3307	.0395	13.42	21 50.9	.2840	3 48.8	7.01
24	.744	.3288	.0409	13.46	21 51.5	.2846	3 44.6	6.94
25	.752	.3269	.0424	13.50	21 52.2	.2852	3 40.4	6.86
26	.760	.3250	.0439	13.53	21 52.8	.2858	3 36.3	6.79
27	+1.768	−0.3230	+0.0454	13.57	21 53.5	1.2865	3 32.2	+6.71
28	.776	.3211	.0469	13.61	21 54.1	.2871	3 28.1	6.63
29	.785	.3191	.0484	13.65	21 54.8	.2877	3 24.0	6.54
30	.793	.3171	.0500	13.69	21 55.5	.2884	3 19.9	6.46
31	.802	.3150	.0516	13.74	21 56.1	.2890	3 15.9	6.37
Novbr. 1	.810	.3129	.0532	13.78	21 56.8	.2897	3 11.8	6.28
2	.819	.3108	.0548	13.82	21 57.6	.2903	3 7.7	6.19
3	.828	.3087	.0564	13.86	21 58.2	.2910	3 3.7	6.09
4	.837	.3065	.0580	13.91	21 58.9	.2916	2 59.7	6.00
5	.846	.3043	.0595	13.95	21 59.6	.2923	2 55.6	5.90

1836

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Novbr. 6	+1.8855	−0.3020	+0.0611	13.″99	22^h $0.^m2$	1.2929	$2^h51.^m6$	+5.″80
7	.864	.2998	.0627	14.04	22 0.9	.2936	2 47.6	5.70
8	.874	.2975	.0643	14.09	22 1.6	.2942	2 43.6	5.60
9	.883	.2952	.0659	14.13	22 2.3	.2949	2 39.6	5.49
10	.893	.2929	.0675	14.18	22 3.0	.2955	2 35.7	5.39
11	.902	.2905	.0691	14.23	22 3.7	.2962	2 31.7	5.28
12	.912	.2881	.0707	14.28	22 4.4	.2968	2 27.7	5.17
13	.922	.2856	.0722	14.33	22 5.0	.2974	2 23.8	5.05
14	.932	.2831	.0737	14.38	22 5.7	.2981	2 19.9	4.94
15	.942	.2805	.0752	14.43	22 6.4	.2987	2 15.9	4.83
16	+1.952	−0.2779	+0.0767	14.48	22 7.1	1.2993	2 12.0	+4.71
17	.962	.2753	.0782	14.53	22 7.8	.2999	2 8.1	4.59
18	.972	.2726	.0796	14.58	22 8.5	.3005	2 4.2	4.47
19	.983	.2699	.0811	14.64	22 9.1	.3010	2 0.3	4.35
20	1.993	.2672	.0825	14.69	22 9.8	.3016	1 56.5	4.23
21	2.004	.2644	.0839	14.75	22 10.5	.3022	1 52.6	4.11
22	.015	.2615	.0853	14.81	22 11.1	.3027	1 48.7	3.98
23	.025	.2586	.0866	14.87	22 11.8	.3033	1 44.9	3.85
24	.036	.2557	.0879	14.92	22 12.4	.3038	1 41.0	3.73
25	.047	.2528	.0892	14.98	22 13.1	.3043	1 37.2	3.60
26	+2.058	−0.2498	+0.0904	15.04	22 13.7	1.3048	1 33.4	+3.47
27	.069	.2468	.0916	15.10	22 14.3	.3053	1 29.5	3.34
28	.080	.2437	.0928	15.16	22 14.9	.3057	1 25.7	3.20
29	.092	.2406	.0940	15.23	22 15.5	.3062	1 21.9	3.07
30	.103	.2375	.0951	15.29	22 16.1	.3066	1 18.1	2.94
Dezbr. 1	.114	.2344	.0961	15.35	22 16.7	.3070	1 14.3	2.80
2	.126	.2312	.0971	15.42	22 17.3	.3074	1 10.5	2.67
3	.137	.2280	.0980	15.48	22 17.8	.3078	1 6.7	2.53
4	.149	.2247	.0989	15.55	22 18.4	.3081	1 2.9	2.39
5	.160	.2214	.0997	15.61	22 19.0	.3084	0 59.2	2.26
6	+2.172	−0.2181	+0.1005	15.68	22 19.5	1.3088	0 55.4	+2.12
7	.184	.2147	.1013	15.75	22 20.0	.3091	0 51.6	1.97
8	.196	.2113	.1020	15.81	22 20.6	.3093	0 47.9	1.83
9	.208	.2079	.1027	15.88	22 21.1	.3096	0 44.1	1.69
10	.219	.2044	.1033	15.95	22 21.6	.3098	0 40.3	1.55
11	.231	.2009	.1038	16.02	22 22.1	.3101	0 36.6	1.41
12	.243	.1974	.1043	16.09	22 22.5	.3103	0 32.8	1.27
13	.255	.1939	.1048	16.16	22 23.0	.3104	0 29.1	1.12
14	.267	.1903	.1052	16.23	22 23.4	.3106	0 25.3	0.98
15	.279	.1868	.1056	16.31	22 23.9	.3107	0 21.6	0.84
16	+2.291	−0.1832	+0.1059	16.38	22 24.3	1.3109	0 17.9	+0.69
17	.303	.1796	.1061	16.45	22 24.7	.3110	0 14.1	0.55
18	.315	.1759	.1063	16.52	22 25.1	.3110	0 10.4	0.40
19	.327	.1722	.1064	16.60	22 25.5	.3111	0 6.7	0.26
20	.339	.1685	.1064	16.67	22 25.9	.3111	0 2.9	+0.11
21	.352	.1648	.1064	16.75	22 26.3	.3111	23 59.2	−0.03
22	.364	.1610	.1064	16.82	22 26.6	.3111	23 55.4	0.18
23	.376	.1573	.1063	16.90	22 27.0	.3111	23 51.7	0.32
24	.388	.1536	.1062	16.97	22 27.3	.3110	23 48.0	0.47
25	.400	.1499	.1060	17.05	22 27.6	.3109	23 44.2	0.61

1836

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	26	$+2^s.412$	−0.1461	+0.1058	17″.12	$22^h27^m.9$	1.3108	$23^h40^m.5$	−0″.76
	27	.424	.1423	.1055	17.20	22 28.2	.3107	23 36.7	0.90
	28	.436	.1385	.1051	17.27	22 28.5	.3106	23 33.0	1.04
	29	.448	.1347	.1047	17.35	22 28.8	.3104	23 29.2	1.19
	30	.460	.1309	.1042	17.43	22 29.1	.3102	23 25.5	1.33
	31	.472	.1271	.1037	17.50	22 29.3	.3100	23 21.7	1.47

1837

Januar	1	$-0^s.587$	−0.6128	+0.1030	7″.76	$16^h\ 2^m.0$	1.3098	$23^h18^m.0$	−1″.61
	2	.575	.6141	.1024	7.74	16 4.2	.3095	23 14.2	1.75
	3	.564	.6153	.1017	7.71	16 6.4	.3092	23 10.4	1.90
	4	.552	.6165	.1010	7.69	16 8.6	.3089	23 6.6	2.04
	5	.540	.6176	.1002	7.67	16 10.8	.3086	23 2.8	2.18
	6	.528	.6186	.0994	7.65	16 13.1	.3083	22 59.1	2.32
	7	.517	.6196	.0985	7.63	16 15.3	.3080	22 55.3	2.45
	8	.505	.6205	.0976	7.61	16 17.6	.3076	22 51.5	2.59
	9	.494	.6213	.0966	7.59	16 19.8	.3072	22 47.7	2.73
	10	.482	.6221	.0956	7.58	16 22.1	.3068	22 43.9	2.87
	11	−0.471	−0.6228	+0.0945	7.56	16 24.4	1.3064	22 40.0	−3.00
	12	.459	.6234	.0934	7.55	16 26.7	.3060	22 36.2	3.14
	13	.448	.6239	.0923	7.54	16 29.0	.3055	22 32.4	3.27
	14	.437	.6244	.0911	7.53	16 31.2	.3050	22 28.6	3.40
	15	.426	.6248	.0899	7.52	16 33.5	.3045	22 24.7	3.53
	16	.415	.6251	.0886	7.52	16 35.8	.3040	22 20.8	3.66
	17	.404	.6254	.0873	7.51	16 38.0	.3035	22 17.0	3.79
	18	.393	.6256	.0860	7.51	16 40.3	.3030	22 13.1	3.92
	19	.382	.6258	.0847	7.50	16 42.5	.3025	22 9.2	4.04
	20	.372	.6259	.0833	7.50	16 44.8	.3019	22 5.3	4.17
	21	−0.361	−0.6260	+0.0819	7.50	16 47.0	1.3013	22 1.4	−4.29
	22	.351	.6260	.0804	7.50	16 49.2	.3007	21 57.5	4.42
	23	.340	.6259	.0789	7.50	16 51.4	.3002	21 53.6	4.54
	24	.330	.6258	.0774	7.50	16 53.6	.2996	21 49.7	4.66
	25	.320	.6256	.0759	7.51	16 55.7	.2990	21 45.7	4.77
	26	.309	.6253	.0744	7.51	16 57.9	.2983	21 41.8	4.89
	27	.299	.6250	.0729	7.52	17 0.0	.2977	21 37.8	5.01
	28	.289	.6247	.0713	7.53	17 2.1	.2971	21 33.9	5.12
	29	.280	.6243	.0698	7.53	17 4.2	.2965	21 29.9	5.23
	30	.270	.6239	.0682	7.54	17 6.3	.2958	21 25.9	5.34
	31	−0.260	−0.6234	+0.0666	7.55	17 8.3	1.2952	21 21.9	−5.45
Februar	1	.251	.6229	.0650	7.56	17 10.3	.2945	21 17.9	5.56
	2	.241	.6224	.0634	7.57	17 12.3	.2938	21 13.9	5.66
	3	.232	.6218	.0618	7.58	17 14.2	.2932	21 9.8	5.76
	4	.222	.6212	.0602	7.59	17 16.2	.2925	21 5.8	5.86
	5	.213	.6206	.0585	7.61	17 18.1	.2918	21 1.7	5.96
	6	.204	.6199	.0568	7.62	17 20.0	.2912	20 57.7	6.06
	7	.195	.6192	.0552	7.64	17 21.8	.2905	20 53.6	6.15
	8	.186	.6185	.0536	7.65	17 23.6	.2899	20 49.5	6.25
	9	.178	.6178	.0520	7.66	17 25.4	.2892	20 45.4	6.34

1837

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	$-0^s.169$	−0.6171	+0.0504	7".68	$17^h 27^m.2$	1.2886	$20^h 41^m.3$	−6".43
11	.160	.6163	.0489	7.69	17 29.0	.2879	20 37.2	6.51
12	.152	.6155	.0474	7.71	17 30.7	.2873	20 33.1	6.60
13	.143	.6147	.0459	7.73	17 32.4	.2866	20 28.9	6.68
14	.135	.6139	.0444	7.74	17 34.1	.2860	20 24.8	6.76
15	.127	.6130	.0429	7.76	17 35.7	.2854	20 20.6	6.84
16	.119	.6122	.0414	7.78	17 37.3	.2848	20 16.4	6.92
17	.111	.6113	.0399	7.79	17 38.9	.2842	20 12.2	7.00
18	.103	.6104	.0384	7.81	17 40.5	.2836	20 8.1	7.07
19	.095	.6095	.0370	7.83	17 42.1	.2830	20 3.9	7.14
20	−0.087	−0.6087	+0.0356	7.85	17 43.6	1.2824	19 59.6	−7.21
21	.079	.6078	.0343	7.86	17 45.1	.2818	19 55.4	7.27
22	.072	.6069	.0330	7.88	17 46.6	.2813	19 51.2	7.34
23	.064	.6061	.0317	7.90	17 48.1	.2807	19 46.9	7.40
24	.057	.6052	.0304	7.91	17 49.5	.2802	19 42.7	7.46
25	.049	.6044	.0292	7.93	17 50.9	.2797	19 38.4	7.51
26	.042	.6035	.0281	7.95	17 52.3	.2792	19 34.2	7.57
27	.035	.6027	.0270	7.97	17 53.7	.2787	19 29.9	7.62
28	.028	.6019	.0259	7.98	17 55.1	.2783	19 25.6	7.67
März 1	.020	.6011	.0249	8.00	17 56.4	.2778	19 21.4	7.72
2	−0.013	−0.6003	+0.0239	8.01	17 57.8	1.2774	19 17.1	−7.76
3	−0.006	.5996	.0229	8.03	17 59.1	.2770	19 12.8	7.80
4	+0.001	.5988	.0220	8.04	18 0.4	.2767	19 8.5	7.84
5	.007	.5981	.0212	8.06	18 1.7	.2763	19 4.2	7.88
6	.014	.5973	.0204	8.07	18 3.0	.2759	18 59.9	7.91
7	.021	.5966	.0196	8.09	18 4.2	.2756	18 55.5	7.95
8	.028	.5959	.0189	8.10	18 5.4	.2753	18 51.2	7.98
9	.035	.5953	.0183	8.11	18 6.7	.2751	18 46.9	8.00
10	.041	.5947	.0177	8.13	18 7.9	.2748	18 42.6	8.03
11	.048	.5941	.0172	8.14	18 9.1	.2746	18 38.3	8.05
12	+0.055	−0.5935	+0.0167	8.15	18 10.4	1.2744	18 33.9	−8.07
13	.061	.5929	.0163	8.16	18 11.6	.2742	18 29.6	8.09
14	.068	.5923	.0160	8.17	18 12.8	.2741	18 25.3	8.11
15	.075	.5917	.0157	8.19	18 13.9	.2739	18 20.9	8.12
16	.081	.5912	.0155	8.20	18 15.1	.2738	18 16.6	8.13
17	.088	.5907	.0153	8.21	18 16.3	.2737	18 12.3	8.14
18	.094	.5902	.0151	8.22	18 17.5	.2737	18 7.9	8.14
19	.101	.5898	.0150	8.23	18 18.7	.2736	18 3.6	8.15
20	.107	.5894	.0150	8.23	18 19.8	.2736	17 59.3	8.15
21	.114	.5890	.0150	8.24	18 21.0	.2736	17 55.0	8.15
22	+0.121	−0.5886	+0.0151	8.25	18 22.2	1.2737	17 50.6	−8.14
23	.127	.5882	.0153	8.26	18 23.3	.2737	17 46.3	8.14
24	.134	.5879	.0155	8.26	18 24.5	.2738	17 42.0	8.13
25	.140	.5876	.0158	8.27	18 25.7	.2740	17 37.7	8.11
26	.147	.5873	.0161	8.27	18 26.9	.2741	17 33.4	8.10
27	.153	.5871	.0165	8.28	18 28.0	.2743	17 29.1	8.08
28	.160	.5868	.0169	8.28	18 29.2	.2744	17 24.8	8.07
29	.167	.5866	.0174	8.29	18 30.4	.2746	17 20.5	8.05
30	.173	.5864	.0179	8.29	18 31.6	.2748	17 16.2	8.02
31	.180	.5862	.0184	8.30	18 32.8	.2751	17 12.0	8.00

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	+0^s.187	−0.5860	+0.0190	8″.30	$18^h 34^m.1$	1.2754	$17^h 7^m.7$	−7″.97
	2	.194	.5858	.0197	8.30	18 35.3	.2757	17 3.5	7.94
	3	.200	.5856	.0205	8.31	18 36.5	.2760	16 59.2	7.91
	4	.207	.5855	.0213	8.31	18 37.7	.2763	16 55.0	7.87
	5	.214	.5854	.0222	8.31	18 39.0	.2767	16 50.7	7.84
	6	.221	.5853	.0231	8.32	18 40.2	.2771	16 46.5	7.80
	7	.228	.5852	.0240	8.32	18 41.5	.2775	16 42.3	7.75
	8	.235	.5851	.0250	8.32	18 42.8	.2779	16 38.1	7.71
	9	.242	.5850	.0260	8.32	18 44.1	.2783	16 33.9	7.66
	10	.249	.5849	.0271	8.32	18 45.4	.2788	16 29.7	7.61
	11	+0.257	−0.5848	+0.0282	8.32	18 46.7	1.2792	16 25.6	−7.56
	12	.264	.5848	.0293	8.32	18 48.0	.2797	16 21.4	7.51
	13	.271	.5848	.0305	8.33	18 49.4	.2802	16 17.3	7.45
	14	.279	.5848	.0317	8.33	18 50.8	.2807	16 13.1	7.40
	15	.286	.5848	.0329	8.33	18 52.1	.2812	16 9.0	7.34
	16	.294	.5847	.0341	8.33	18 53.5	.2817	16 4.9	7.28
	17	.301	.5847	.0354	8.33	18 54.9	.2823	16 0.8	7.21
	18	.309	.5846	.0367	8.33	18 56.3	.2828	15 56.7	7.15
	19	.317	.5845	.0381	8.33	18 57.8	.2834	15 52.7	7.08
	20	.325	.5844	.0395	8.33	18 59.2	.2840	15 48.6	7.01
	21	+0.333	−0.5843	+0.0409	8.33	19 0.7	1.2845	15 44.6	−6.94
	22	.341	.5842	.0423	8.34	19 2.2	.2851	15 40.5	6.87
	23	.349	.5841	.0437	8.34	19 3.7	.2858	15 36.5	6.79
	24	.357	.5840	.0452	8.34	19 5.2	.2864	15 32.5	6.71
	25	.365	.5839	.0467	8.34	19 6.7	.2870	15 28.5	6.63
	26	.374	.5837	.0482	8.35	19 8.2	.2876	15 24.5	6.55
	27	.382	.5836	.0497	8.35	19 9.8	.2882	15 20.6	6.47
	28	.391	.5834	.0512	8.35	19 11.4	.2889	15 16.6	6.38
	29	.399	.5832	.0528	8.36	19 13.0	.2895	15 12.7	6.30
	30	.408	.5829	.0543	8.36	19 14.5	.2901	15 8.7	6.21
Mai	1	+0.417	−0.5826	+0.0559	8.37	19 16.1	1.2908	15 4.8	−6.12
	2	.426	.5823	.0574	8.38	19 17.8	.2914	15 0.9	6.03
	3	.434	.5820	.0590	8.38	19 19.4	.2920	14 57.0	5.93
	4	.443	.5816	.0605	8.39	19 21.0	.2927	14 53.2	5.84
	5	.452	.5813	.0621	8.40	19 22.7	.2933	14 49.3	5.74
	6	.462	.5809	.0636	8.40	19 24.4	.2939	14 45.5	5.64
	7	.471	.5805	.0651	8.41	19 26.1	.2945	14 41.7	5.54
	8	.480	.5800	.0666	8.42	19 27.8	.2952	14 37.9	5.44
	9	.490	.5795	.0681	8.43	19 29.5	.2958	14 34.0	5.34
	10	.499	.5789	.0696	8.44	19 31.2	.2964	14 30.2	5.24
	11	+0.509	−0.5783	+0.0711	8.45	19 32.9	1.2970	14 26.5	−5.13
	12	.519	.5777	.0726	8.47	19 34.6	.2976	14 22.7	5.02
	13	.529	.5770	.0741	8.48	19 36.4	.2982	14 18.9	4.91
	14	.538	.5763	.0755	8.49	19 38.1	.2988	14 15.2	4.80
	15	.548	.5756	.0769	8.51	19 39.9	.2994	14 11.4	4.69
	16	.558	.5748	.0783	8.52	19 41.6	.2999	14 7.7	4.58
	17	.568	.5739	.0797	8.54	19 43.4	.3005	14 4.0	4.46
	18	.579	.5730	.0811	8.56	19 45.1	.3010	14 0.3	4.35
	19	.589	.5721	.0825	8.58	19 46.9	.3016	13 56.6	4.24
	20	.599	.5711	.0838	8.60	19 48.6	.3021	13 52.9	4.12

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	+0.8610	−0.5701	+0.0851	8.″62	$19^h50^m.4$	1.3026	$13^h49^m.2$	−4.″00
	22	.620	.5690	.0864	8.64	19 52.1	.3031	13 45.6	3.88
	23	.631	.5679	.0876	8.66	19 53.9	.3036	13 41.9	3.76
	24	.642	.5667	.0888	8.69	19 55.6	.3041	13 38.3	3.63
	25	.652	.5654	.0900	8.71	19 57.3	.3046	13 34.7	3.51
	26	.663	.5641	.0911	8.74	19 59.1	.3050	13 31.1	3.39
	27	.674	.5628	.0922	8.77	20 0.8	.3055	13 27.5	3.27
	28	.685	.5614	.0933	8.79	20 2.5	.3059	13 23.8	3.14
	29	.696	.5599	.0944	8.82	20 4.2	.3064	13 20.2	3.02
	30	.707	.5584	.0955	8.85	20 5.9	.3068	13 16.6	2.89
	31	+0.718	−0.5569	+0.0965	8.89	20 7.6	1.3072	13 13.1	−2.76
Juni	1	.729	.5553	.0974	8.92	20 9.3	.3075	13 9.5	2.63
	2	.740	.5537	.0983	8.95	20 11.0	.3079	13 5.9	2.50
	3	.751	.5520	.0991	8.98	20 12.7	.3082	13 2.4	2.37
	4	.763	.5502	.0999	9.02	20 14.3	.3085	12 58.8	2.24
	5	.774	.5484	.1006	9.06	20 16.0	.3088	12 55.3	2.11
	6	.785	.5465	.1013	9.09	20 17.6	.3091	12 51.7	1.98
	7	.797	.5445	.1020	9.13	20 19.2	.3093	12 48.2	1.85
	8	.808	.5425	.1026	9.17	20 20.8	.3096	12 44.6	1.71
	9	.820	.5405	.1032	9.21	20 22.3	.3098	12 41.1	1.58
	10	+0.831	−0.5384	+0.1038	9.25	20 23.9	1.3100	12 37.6	−1.45
	11	.843	.5363	.1043	9.30	20 25.4	.3102	12 34.1	1.31
	12	.854	.5341	.1047	9.34	20 26.9	.3104	12 30.6	1.18
	13	.866	.5319	.1051	9.39	20 28.4	.3106	12 27.0	1.04
	14	.878	.5296	.1054	9.43	20 29.9	.3107	12 23.5	0.91
	15	.889	.5272	.1057	9.48	20 31.4	.3108	12 20.0	0.78
	16	.901	.5248	.1059	9.53	20 32.8	.3109	12 16.5	0.64
	17	.912	.5224	.1061	9.58	20 34.2	.3110	12 13.0	0.50
	18	.924	.5200	.1063	9.62	20 35.6	.3110	12 9.5	0.37
	19	.936	.5175	.1064	9.67	20 37.0	.3111	12 6.0	0.23
	20	+0.948	−0.5150	+0.1065	9.73	20 38.3	1.3111	12 2.5	−0.10
	21	.959	.5124	.1065	9.78	20 39.6	.3111	11 59.0	+0.04
	22	.971	.5098	.1065	9.83	20 40.9	.3111	11 55.5	0.17
	23	.983	.5071	.1064	9.88	20 42.2	.3111	11 52.0	0.31
	24	0.994	.5044	.1063	9.94	20 43.5	.3110	11 48.5	0.44
	25	1.006	.5017	.1061	9.99	20 44.7	.3109	11 45.0	0.58
	26	.018	.4989	.1058	10.05	20 45.9	.3108	11 41.5	0.71
	27	.029	.4961	.1055	10.10	20 47.1	.3107	11 38.0	0.85
	28	.041	.4933	.1052	10.16	20 48.2	.3106	11 34.5	0.98
	29	.053	.4905	.1048	10.22	20 49.4	.3105	11 31.0	1.12
	30	+1.064	−0.4877	+0.1044	10.27	20 50.5	1.3103	11 27.5	+1.25
Juli	1	.076	.4848	.1040	10.33	20 51.6	.3101	11 24.0	1.39
	2	.087	.4819	.1035	10.39	20 52.6	.3099	11 20.4	1.52
	3	.099	.4789	.1029	10.45	20 53.7	.3097	11 16.9	1.65
	4	.110	.4759	.1023	10.51	20 54.7	.3095	11 13.4	1.79
	5	.122	.4728	.1016	10.57	20 55.7	.3092	11 9.9	1.92
	6	.133	.4698	.1009	10.63	20 56.6	.3089	11 6.4	2.05
	7	.144	.4667	.1002	10.69	20 57.6	.3086	11 2.8	2.18
	8	.156	.4637	.0994	10.75	20 58.5	.3083	10 59.3	2.31
	9	.167	.4606	.0986	10.82	20 59.4	.3080	10 55.7	2.44

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	10	+1.^{s}178	−0.4575	+0.0977	10.″88	21^h 0.^{m}3	1.3077	$10^h52.^m2$	+2.″57
	11	.189	.4544	.0968	10.94	21 1.1	.3073	10 48.6	2.70
	12	.201	.4513	.0959	11.00	21 2.0	.3069	10 45.0	2.83
	13	.212	.4482	.0949	11.06	21 2.8	.3065	10 41.5	2.95
	14	.223	.4451	.0939	11.13	21 3.6	.3061	10 37.9	3.08
	15	.233	.4419	.0928	11.19	21 4.3	.3057	10 34.3	3.20
	16	.244	.4388	.0917	11.25	21 5.1	.3053	10 30.7	3.33
	17	.255	.4356	.0906	11.32	21 5.8	.3048	10 27.1	3.45
	18	.266	.4325	.0895	11.38	21 6.5	.3044	10 23.5	3.57
	19	.276	.4293	.0883	11.44	21 7.2	.3039	10 19.9	3.70
	20	+1.287	−0.4261	+0.0871	11.51	21 7.9	1.3034	10 16.3	+3.82
	21	.298	.4230	.0859	11.57	21 8.5	.3030	10 12.6	3.94
	22	.308	.4198	.0846	11.63	21 9.1	.3024	10 9.0	4.05
	23	.319	.4167	.0833	11.70	21 9.8	.3019	10 5.3	4.17
	24	.329	.4135	.0820	11.76	21 10.4	.3014	10 1.7	4.29
	25	.339	.4104	.0806	11.82	21 10.9	.3008	9 58.0	4.40
	26	.349	.4073	.0792	11.88	21 11.5	.3003	9 54.3	4.52
	27	.359	.4042	.0778	11.95	21 12.1	.2997	9 50.6	4.63
	28	.369	.4010	.0764	12.01	21 12.6	.2991	9 46.9	4.74
	29	.379	.3979	.0750	12.07	21 13.1	.2986	9 43.2	4.85
	30	+1.389	−0.3948	+0.0736	12.13	21 13.7	1.2980	9 39.5	+4.96
	31	.399	.3917	.0721	12.20	21 14.2	.2974	9 35.8	5.07
August	1	.409	.3886	.0706	12.26	21 14.6	.2968	9 32.0	5.17
	2	.418	.3856	.0691	12.32	21 15.1	.2962	9 28.3	5.28
	3	.428	.3825	.0676	12.38	21 15.6	.2956	9 24.5	5.38
	4	.437	.3795	.0661	12.44	21 16.0	.2950	9 20.7	5.48
	5	.447	.3765	.0645	12.50	21 16.4	.2943	9 16.9	5.58
	6	.456	.3735	.0630	12.56	21 16.8	.2937	9 13.1	5.68
	7	.465	.3705	.0615	12.62	21 17.2	.2931	9 9.3	5.78
	8	.474	.3675	.0600	12.68	21 17.6	.2925	9 5.5	5.87
	9	+1.483	−0.3646	+0.0584	12.74	21 18.0	1.2918	9 1.6	+5.97
	10	.492	.3617	.0569	12.80	21 18.4	.2912	8 57.8	6.06
	11	.501	.3588	.0554	12.86	21 18.8	.2906	8 53.9	6.15
	12	.509	.3559	.0539	12.91	21 19.2	.2899	8 50.0	6.24
	13	.518	.3530	.0524	12.97	21 19.5	.2893	8 46.1	6.33
	14	.527	.3502	.0509	13.03	21 19.9	.2887	8 42.2	6.41
	15	.535	.3474	.0494	13.08	21 20.2	.2881	8 38.3	6.50
	16	.544	.3446	.0479	13.14	21 20.5	.2875	8 34.4	6.58
	17	.552	.3418	.0464	13.20	21 20.9	.2868	8 30.4	6.66
	18	.560	.3391	.0449	13.25	21 21.2	.2862	8 26.5	6.73
	19	+1.568	−0.3364	+0.0434	13.31	21 21.5	1.2856	8 22.5	+6.81
	20	.576	.3337	.0420	13.36	21 21.8	.2850	8 18.5	6.88
	21	.584	.3310	.0406	13.41	21 22.1	.2845	8 14.5	6.96
	22	.592	.3284	.0393	13.46	21 22.4	.2839	8 10.5	7.03
	23	.600	.3258	.0379	13.52	21 22.7	.2833	8 6.5	7.10
	24	.608	.3233	.0366	13.57	21 23.0	.2828	8 2.4	7.16
	25	.616	.3207	.0353	13.62	21 23.3	.2822	7 58.4	7.23
	26	.624	.3182	.0340	13.67	21 23.6	.2817	7 54.3	7.29
	27	.631	.3157	.0327	13.72	21 23.9	.2811	7 50.3	7.35
	28	.639	.3133	.0315	13.77	21 24.2	.2806	7 46.2	7.41

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	29	+1^s.646	−0.3109	+0.0303	13″.82	$21^h24^m.5$	1.2801	$7^h42^m.1$	+7″.46
	30	.654	.3085	.0292	13.87	21 24.7	.2796	7 38.0	7.52
	31	.661	.3061	.0281	13.91	21 25.0	.2792	7 33.9	7.57
Septbr.	1	.668	.3038	.0270	13.96	21 25.3	.2787	7 29.8	7.62
	2	.675	.3015	.0259	14.01	21 25.6	.2783	7 25.6	7.67
	3	.683	.2992	.0249	14.05	21 25.9	.2779	7 21.5	7.71
	4	.690	.2969	.0239	14.10	21 26.2	.2775	7 17.3	7.76
	5	.697	.2947	.0230	14.14	21 26.5	.2771	7 13.2	7.80
	6	.704	.2925	.0221	14.19	21 26.7	.2767	7 9.0	7.83
	7	.711	.2903	.0213	14.23	21 27.0	.2763	7 4.8	7.87
	8	+1.717	−0.2882	+0.0205	14.27	21 27.3	1.2760	7 0.7	+7.90
	9	.724	.2861	.0198	14.31	21 27.6	.2757	6 56.5	7.94
	10	.731	.2840	.0191	14.36	21 27.9	.2754	6 52.3	7.97
	11	.738	.2820	.0185	14.40	21 28.2	.2751	6 48.0	8.00
	12	.745	.2800	.0179	14.44	21 28.6	.2749	6 43.8	8.03
	13	.751	.2780	.0174	14.48	21 28.9	.2746	6 39.6	8.05
	14	.758	.2760	.0169	14.52	21 29.2	.2744	6 35.4	8.07
	15	.765	.2740	.0165	14.56	21 29.5	.2743	6 31.1	8.09
	16	.772	.2720	.0161	14.60	21 29.8	.2741	6 26.9	8.10
	17	.778	.2701	.0158	14.64	21 30.1	.2740	6 22.6	8.12
	18	+1.785	−0.2682	+0.0156	14.67	21 30.5	1.2739	6 18.3	+8.13
	19	.791	.2663	.0154	14.71	21 30.8	.2738	6 14.1	8.14
	20	.798	.2644	.0152	14.75	21 31.2	.2737	6 9.8	8.14
	21	.805	.2626	.0151	14.79	21 31.5	.2737	6 5.5	8.15
	22	.811	.2608	.0150	14.82	21 31.9	.2736	6 1.3	8.15
	23	.818	.2590	.0150	14.86	21 32.2	.2736	5 57.0	8.15
	24	.824	.2572	.0151	14.89	21 32.6	.2737	5 52.7	8.15
	25	.831	.2554	.0152	14.93	21 33.0	.2737	5 48.4	8.14
	26	.838	.2536	.0154	14.97	21 33.4	.2738	5 44.2	8.13
	27	.844	.2519	.0156	15.00	21 33.7	.2739	5 39.9	8.12
	28	+1.851	−0.2501	+0.0159	15.04	21 34.1	1.2740	5 35.6	+8.11
	29	.858	.2484	.0162	15.07	21 34.5	.2742	5 31.3	8.10
	30	.864	.2466	.0166	15.11	21 35.0	.2743	5 27.0	8.08
Oktbr.	1	.871	.2449	.0171	15.14	21 35.4	.2745	5 22.7	8.06
	2	.878	.2432	.0176	15.17	21 35.8	.2748	5 18.5	8.04
	3	.884	.2415	.0182	15.21	21 36.2	.2750	5 14.2	8.01
	4	.891	.2398	.0188	15.24	21 36.7	.2753	5 9.9	7.98
	5	.898	.2382	.0195	15.27	21 37.1	.2756	5 5.7	7.95
	6	.905	.2365	.0202	15.31	21 37.6	.2759	5 1.4	7.92
	7	.912	.2349	.0210	15.34	21 38.1	.2762	4 57.1	7.89
	8	+1.919	−0.2332	+0.0218	15.37	21 38.5	1.2765	4 52.9	+7.85
	9	.926	.2316	.0227	15.41	21 39.0	.2769	4 48.6	7.82
	10	.933	.2299	.0236	15.44	21 39.5	.2773	4 44.4	7.78
	11	.940	.2282	.0245	15.48	21 40.0	.2777	4 40.1	7.73
	12	.948	.2266	.0255	15.51	21 40.5	.2781	4 35.9	7.69
	13	.955	.2249	.0266	15.54	21 41.0	.2786	4 31.7	7.64
	14	.962	.2232	.0277	15.58	21 41.5	.2790	4 27.4	7.59
	15	.969	.2215	.0288	15.61	21 42.1	.2795	4 23.2	7.53
	16	.977	.2198	.0300	15.64	21 42.6	.2800	4 19.0	7.48
	17	.984	.2181	.0312	15.68	21 43.1	.2805	4 14.8	7.42

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	18	$+1^s.992$	−0.2164	+0.0325	15″.71	$21^h43^m.7$	1.2811	$4^h10^m.6$	+7″.36
	19	2.000	.2146	.0338	15.75	21 44.2	.2816	4 6.4	7.30
	20	.007	.2129	.0351	15.78	21 44.8	.2821	4 2.3	7.23
	21	.015	.2111	.0364	15.82	21 45.4	.2827	3 58.1	7.17
	22	.023	.2093	.0378	15.85	21 45.9	.2833	3 53.9	7.10
	23	.031	.2075	.0392	15.89	21 46.5	.2839	3 49.8	7.03
	24	.039	.2057	.0406	15.93	21 47.1	.2845	3 45.6	6.96
	25	.047	.2039	.0420	15.96	21 47.7	.2851	3 41.5	6.88
	26	.056	.2021	.0435	16.00	21 48.3	.2857	3 37.3	6.80
	27	.064	.2002	.0450	16.04	21 48.9	.2863	3 33.2	6.73
	28	+2.072	−0.1983	+0.0465	16.08	21 49.5	1.2869	3 29.1	+6.64
	29	.081	.1963	.0481	16.12	21 50.1	.2876	3 25.0	6.56
	30	.090	.1944	.0496	16.15	21 50.7	.2882	3 20.9	6.48
	31	.098	.1924	.0512	16.19	21 51.4	.2888	3 16.9	6.39
Novbr.	1	.107	.1904	.0528	16.23	21 52.0	.2895	3 12.8	6.30
	2	.116	.1884	.0544	16.27	21 52.6	.2902	3 8.7	6.21
	3	.125	.1864	.0560	16.31	21 53.2	.2908	3 4.7	6.11
	4	.134	.1843	.0576	16.36	21 53.8	.2915	3 0.6	6.02
	5	.143	.1821	.0592	16.40	21 54.5	.2921	2 56.6	5.92
	6	.153	.1799	.0608	16.44	21 55.1	.2928	2 52.6	5.82
	7	+2.162	−0.1777	+0.0624	16.49	21 55.7	1.2934	2 48.6	+5.72
	8	.171	.1755	.0640	16.53	21 56.4	.2941	2 44.6	5.62
	9	.181	.1733	.0656	16.58	21 57.0	.2947	2 40.6	5.52
	10	.191	.1710	.0672	16.62	21 57.7	.2954	2 36.6	5.41
	11	.200	.1687	.0688	16.67	21 58.3	.2960	2 32.7	5.30
	12	.210	.1663	.0703	16.72	21 58.9	.2967	2 28.7	5.19
	13	.220	.1639	.0718	16.76	21 59.6	.2973	2 24.8	5.08
	14	.230	.1615	.0733	16.81	22 0.2	.2979	2 20.8	4.97
	15	.240	.1590	.0748	16.86	22 0.9	.2985	2 16.9	4.85
	16	.251	.1565	.0763	16.91	22 1.5	.2991	2 13.0	4.74
	17	+2.261	−0.1540	+0.0778	16.96	22 2.1	1.2997	2 9.1	+4.62
	18	.271	.1514	.0793	17.02	22 2.8	.3003	2 5.2	4.50
	19	.282	.1488	.0808	17.07	22 3.4	.3009	2 1.3	4.38
	20	.292	.1461	.0822	17.12	22 4.0	.3015	1 57.4	4.26
	21	.303	.1434	.0836	17.18	22 4.6	.3020	1 53.5	4.14
	22	.314	.1406	.0850	17.23	22 5.2	.3026	1 49.7	4.01
	23	.325	.1378	.0863	17.29	22 5.9	.3031	1 45.8	3.88
	24	.336	.1350	.0876	17.35	22 6.5	.3036	1 42.0	3.76
	25	.347	.1321	.0889	17.40	22 7.1	.3042	1 38.1	3.63
	26	.358	.1292	.0901	17.46	22 7.7	.3047	1 34.3	3.50
	27	+2.369	−0.1263	+0.0913	17.52	22 8.2	1.3051	1 30.5	+3.37
	28	.381	.1233	.0925	17.58	22 8 8	.3056	1 26.7	3.24
	29	.392	.1203	.0936	17.64	22 9.4	.3061	1 22.8	3.10
	30	.404	.1172	.0947	17.70	22 10.0	.3065	1 19.0	2.97
Dezbr.	1	.415	.1141	.0958	17.76	22 10.5	.3069	1 15.2	2.83
	2	.427	.1110	.0968	17.83	22 11.1	.3073	1 11.4	2.70
	3	.438	.1079	.0977	17.89	22 11.7	.3077	1 7.6	2.56
	4	.450	.1047	.0986	17.95	22 12.2	.3080	1 3.9	2.43
	5	.462	.1015	.0995	18.02	22 12.7	.3084	1 0.1	2.29
	6	.473	.0982	.1003	18.08	22 13.3	.3087	0 56.3	2.15

1837

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	7	$+2^s.485$	−0.0949	+0.1011	18″.15	$22^h13^m.8$	1.3090	$0^h52^m.5$	+2″.01
	8	.497	.0916	.1018	18.22	22 14.3	.3093	0 48.8	1.87
	9	.509	.0882	.1025	18.28	22 14.8	.3095	0 45.0	1.73
	10	.521	.0848	.1031	18.35	22 15.3	.3098	0 41.2	1.58
	11	.533	.0814	.1037	18.42	22 15.8	.3100	0 37.5	1.44
	12	.545	.0780	.1042	18.49	22 16.2	.3102	0 33.7	1.30
	13	.557	.0745	.1047	18.56	22 16.7	.3104	0 30.0	1.16
	14	.569	.0710	.1051	18.63	22 17.1	.3106	0 26.2	1.02
	15	.582	.0675	.1055	18.70	22 17.6	.3107	0 22.5	0.87
	16	.594	.0639	.1058	18.77	22 18.0	.3108	0 18.8	0.73
	17	+2.606	−0.0603	+0.1061	18.84	22 18.4	1.3109	0 15.0	+0.58
	18	.618	.0567	.1063	18.91	22 18.8	.3110	0 11.3	0.44
	19	.630	.0531	.1064	18.99	22 19.2	.3111	0 7.6	0.29
	20	.643	.0494	.1064	19.06	22 19.6	.3111	0 3.8	+0.15
	21	.655	.0458	.1064	19.13	22 20.0	.3111	0 0.1	0.00
	22	.667	.0421	.1064	19.21	22 20.4	.3111	23 56.3	−0.14
	23	.680	.0384	.1063	19.28	22 20.7	.3111	23 52.6	0.29
	24	.692	.0347	.1062	19.36	22 21.1	.3110	23 48.9	0.43
	25	.704	.0310	.1060	19.43	22 21.4	.3110	23 45.1	0.58
	26	.716	.0273	.1058	19.50	22 21.8	.3109	23 41.4	0.72
	27	+2.728	−0.0236	+0.1055	19.58	22 22.1	1.3108	23 37.6	−0.86
	28	.741	.0198	.1052	19.65	22 22.4	.3106	23 33.9	1.01
	29	.753	.0161	.1048	19.73	22 22.7	.3105	23 30.1	1.15
	30	.765	.0123	.1044	19.80	22 23.0	.3103	23 26.4	1.29
	31	.777	.0085	.1040	19.88	22 23.3	.3101	23 22.6	1.44

1838

Januar	1	$-0^s.282$	−0.5832	+0.1032	8″.36	$17^h9^m.2$	1.3098	$23^h18^m.9$	−1″.58
	2	.270	.5835	.1026	8.35	17 11.4	.3096	23 15.1	1.72
	3	.258	.5837	.1019	8.35	17 13.5	.3093	23 11.3	1.86
	4	.246	.5839	.1012	8.34	17 15.7	.3090	23 7.5	2.00
	5	.234	.5840	.1004	8.34	17 17.8	.3087	23 3.8	2.14
	6	.222	.5841	.0996	8.34	17 20.0	.3084	23 0.0	2.28
	7	.211	.5841	.0987	8.34	17 22.1	.3081	22 56.2	2.42
	8	.199	.5840	.0978	8.34	17 24.3	.3077	22 52.4	2.56
	9	.187	.5839	.0968	8.34	17 26.4	.3073	22 48.6	2.70
	10	.176	.5837	.0958	8.35	17 28.5	.3069	22 44.8	2.83
	11	−0.164	−0.5834	+0.0948	8.35	17 30.6	1.3065	22 41.0	−2.97
	12	.153	.5831	.0937	8.36	17 32.7	.3061	22 37.1	3.10
	13	.141	.5827	.0926	8.37	17 34.8	.3056	22 33.3	3.24
	14	.130	.5822	.0914	8.38	17 36.8	.3051	22 29.5	3.37
	15	.119	.5817	.0902	8.39	17 38.9	.3047	22 25.6	3.50
	16	.107	.5811	.0889	8.40	17 40.9	.3042	22 21.8	3.63
	17	.096	.5804	.0876	8.41	17 42.9	.3036	22 17.9	3.76
	18	.085	.5797	.0863	8.43	17 44.9	.3031	22 14.0	3.89
	19	.074	.5790	.0850	8.44	17 46.9	.3026	22 10.2	4.01
	20	.064	.5782	.0836	8.46	17 48.8	.3020	22 6.3	4.14

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	21	$-0^s.053$	−0.5774	+0.0822	8″.47	$17^h 50^m.7$	1.3015	$22^h 2^m.4$	−4″.26
	22	.042	.5765	.0807	8.49	17 52.6	.3009	21 58.5	4.39
	23	.032	.5756	.0793	8.51	17 54.5	.3003	21 54.6	4.51
	24	.021	.5746	.0778	8.53	17 56.4	.2997	21 50.6	4.63
	25	.011	.5736	.0763	8.55	17 58.2	.2991	21 46.7	4.75
	26	−0.001	.5726	.0748	8.57	18 0.0	.2985	21 42.8	4.86
	27	+0.010	.5715	.0733	8.59	18 1.8	.2979	21 38.8	4.98
	28	.020	.5704	.0717	8.61	18 3.5	.2972	21 34.8	5.09
	29	.030	.5693	.0701	8.64	18 5.3	.2966	21 30.9	5.21
	30	.040	.5681	.0685	8.66	18 7.0	.2960	21 26.9	5.32
	31	+0.050	−0.5669	+0.0669	8.68	18 8.7	1.2953	21 22.9	−5.42
Februar	1	.059	.5657	.0653	8.71	18 10.3	.2946	21 18.9	5.53
	2	.069	.5645	.0637	8.73	18 11.9	.2940	21 14.9	5.64
	3	.078	.5632	.0621	8.76	18 13.5	.2933	21 10.8	5.74
	4	.088	.5619	.0605	8.78	18 15.1	.2927	21 6.8	5.84
	5	.097	.5606	.0589	8.81	18 16.6	.2920	21 2.7	5.94
	6	.106	.5593	.0572	8.84	18 18.1	.2913	20 58.7	6.04
	7	.115	.5580	.0556	8.86	18 19.6	.2907	20 54.6	6.13
	8	.124	.5567	.0540	8.89	18 21.1	.2900	20 50.5	6.22
	9	.133	.5553	.0524	8.92	18 22.5	.2894	20 46.4	6.32
	10	+0.142	−0.5540	+0.0508	8.94	18 23.9	1.2887	20 42.3	−6.41
	11	.151	.5526	.0493	8.97	18 25.3	.2881	20 38.2	6.49
	12	.160	.5513	.0477	9.00	18 26.7	.2874	20 34.1	6.58
	13	.168	.5499	.0462	9.02	18 28.0	.2868	20 29.9	6.66
	14	.177	.5485	.0447	9.05	18 29.4	.2862	20 25.8	6.74
	15	.185	.5471	.0432	9.08	18 30.7	.2855	20 21.6	6.82
	16	.193	.5457	.0417	9.11	18 31.9	.2849	20 17.4	6.90
	17	.201	.5444	.0402	9.13	18 33.2	.2843	20 13.2	6.98
	18	.210	.5430	.0387	9.16	18 34.5	.2837	20 9.1	7.05
	19	.218	.5417	.0373	9.19	18 35.7	.2831	20 4.9	7.12
	20	+0.225	−0.5404	+0.0359	9.22	18 36.9	1.2825	20 0.7	−7.19
	21	.233	.5391	.0346	9.24	18 38.1	.2820	19 56.4	7.26
	22	.241	.5378	.0333	9.27	18 39.2	.2814	19 52.2	7.32
	23	.249	.5365	.0320	9.29	18 40.4	.2808	19 48.0	7.38
	24	.256	.5352	.0307	9.32	18 41.5	.2803	19 43.7	7.44
	25	.264	.5340	.0295	9.34	18 42.6	.2798	19 39.5	7.50
	26	.271	.5327	.0283	9.37	18 43.7	.2793	19 35.2	7.55
	27	.279	.5315	.0272	9.39	18 44.8	.2788	19 31.0	7.61
	28	.286	.5303	.0261	9.42	18 45.9	.2784	19 26.7	7.66
März	1	.293	.5291	.0251	9.44	18 46.9	.2779	19 22.4	7.70
	2	+0.301	−0.5279	+0.0241	9.47	18 48.0	1.2775	19 18.1	−7.75
	3	.308	.5268	.0232	9.49	18 49.0	.2771	19 13.8	7.79
	4	.315	.5257	.0223	9.51	18 50.1	.2767	19 9.5	7.83
	5	.322	.5246	.0215	9.53	18 51.1	.2764	19 5.2	7.87
	6	.329	.5235	.0207	9.55	18 52.1	.2760	19 0.9	7.91
	7	.336	.5224	.0199	9.58	18 53.1	.2757	18 56.6	7.94
	8	.343	.5214	.0192	9.60	18 54.1	.2754	18 52.3	7.97
	9	.350	.5204	.0185	9.62	18 55.1	.2751	18 47.9	8.00
	10	.357	.5194	.0179	9.64	18 56.1	.2749	18 43.6	8.02
	11	.363	.5185	.0174	9.65	18 57.0	.2746	18 39.3	8.05

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	12	+0.370	−0.5176	+0.0169	9.67	18h58m.0	1.2744	18h35m.0	−8.07
	13	.377	.5167	.0165	9.69	18 59.0	.2742	18 30.6	8.09
	14	.384	.5158	.0161	9.71	18 59.9	.2741	18 26.3	8.10
	15	.390	.5150	.0158	9.73	19 0.9	.2740	18 22.0	8.12
	16	.397	.5141	.0155	9.74	19 1.9	.2739	18 17.6	8.13
	17	.404	.5133	.0153	9.76	19 2.8	.2738	18 13.3	8.14
	18	.411	.5125	.0151	9.77	19 3.8	.2737	18 9.0	8.14
	19	.417	.5118	.0150	9.79	19 4.7	.2736	18 4.7	8.15
	20	.424	.5110	.0150	9.81	19 5.7	.2736	18 0.3	8.15
	21	.431	.5103	.0150	9.82	19 6.7	.2736	17 56.0	8.15
	22	+0.437	−0.5096	+0.0151	9.83	19 7.6	1.2737	17 51.7	−8.14
	23	.444	.5090	.0152	9.85	19 8.6	.2737	17 47.4	8.14
	24	.451	.5083	.0154	9.86	19 9.6	.2738	17 43.1	8.13
	25	.457	.5077	.0157	9.87	19 10.5	.2739	17 38.7	8.12
	26	.464	.5071	.0160	9.88	19 11.5	.2741	17 34.4	8.10
	27	.471	.5065	.0163	9.89	19 12.5	.2742	17 30.1	8.09
	28	.477	.5059	.0167	9.91	19 13.5	.2744	17 25.8	8.07
	29	.484	.5054	.0172	9.92	19 14.5	.2746	17 21.5	8.05
	30	.491	.5049	.0177	9.93	19 15.5	.2748	17 17.3	8.03
	31	.498	.5044	.0183	9.94	19 16.5	.2750	17 13.0	8.00
April	1	+0.505	−0.5039	+0.0189	9.95	19 17.5	1.2753	17 8.8	−7.98
	2	.511	.5034	.0196	9.96	19 18.5	.2756	17 4.5	7.95
	3	.518	.5029	.0204	9.97	19 19.6	.2759	17 0.2	7.92
	4	.525	.5025	.0212	9.97	19 20.6	.2763	16 56.0	7.88
	5	.532	.5021	.0220	9.98	19 21.6	.2766	16 51.8	7.85
	6	.539	.5017	.0229	9.99	19 22.7	.2770	16 47.5	7.81
	7	.547	.5012	.0238	10.00	19 23.8	.2774	16 43.3	7.76
	8	.554	.5008	.0248	10.01	19 24.8	.2778	16 39.1	7.72
	9	.561	.5004	.0258	10.02	19 25.9	.2782	16 34.9	7.67
	10	.568	.5000	.0268	10.03	19 27.0	.2787	16 30.8	7.63
	11	+0.576	−0.4996	+0.0279	10.03	19 28.1	1.2791	16 26.6	−7.58
	12	.583	.4992	.0290	10.04	19 29.2	.2796	16 22.4	7.52
	13	.590	.4989	.0302	10.05	19 30.3	.2801	16 18.3	7.47
	14	.598	.4985	.0314	10.06	19 31.5	.2806	16 14.1	7.41
	15	.605	.4982	.0326	10.06	19 32.6	.2811	16 10.0	7.35
	16	.613	.4978	.0338	10.07	19 33.8	.2816	16 5.9	7.29
	17	.621	.4974	.0351	10.08	19 35.0	.2821	16 1.8	7.23
	18	.629	.4970	.0364	10.09	19 36.2	.2827	15 57.7	7.16
	19	.637	.4966	.0377	10.09	19 37.4	.2833	15 53.7	7.10
	20	.645	.4961	.0391	10.10	19 38.6	.2838	15 49.6	7.03
	21	+0.653	−0.4957	+0.0405	10.11	19 39.8	1.2844	15 45.5	−6.96
	22	.661	.4952	.0419	10.12	19 41.0	.2850	15 41.5	6.88
	23	.669	.4948	.0434	10.13	19 42.3	.2856	15 37.5	6.81
	24	.677	.4943	.0449	10.14	19 43.5	.2862	15 33.5	6.73
	25	.686	.4938	.0464	10.15	19 44.8	.2868	15 29.5	6.65
	26	.694	.4933	.0479	10.16	19 46.1	.2875	15 25.5	6.57
	27	.702	.4928	.0495	10.17	19 47.3	.2881	15 21.5	6.49
	28	.711	.4922	.0510	10.18	19 48.6	.2887	15 17.6	6.41
	29	.720	.4916	.0525	10.19	19 49.9	.2894	15 13.6	6.32
	30	.728	.4910	.0540	10.21	19 51.2	.2900	15 9.7	6.23

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	1	+0.737	−0.4904	+0.0556	10.″22	$19^h 52^m.6$	1.2906	$15^h 5^m.8$	−6.″14
	2	.746	.4898	.0571	10.23	19 53.9	.2913	15 1.9	6.05
	3	.755	.4891	.0586	10.24	19 55.2	.2919	14 58.0	5.96
	4	.764	.4884	.0601	10.26	19 56.6	.2925	14 54.1	5.86
	5	.774	.4877	.0617	10.27	19 57.9	.2931	14 50.3	5.77
	6	.783	.4869	.0632	10.29	19 59.3	.2938	14 46.4	5.67
	7	.792	.4861	.0647	10.31	20 0.6	.2944	14 42.6	5.57
	8	.802	.4852	.0662	10.32	20 2.0	.2950	14 38.8	5.47
	9	.811	.4843	.0677	10.34	20 3.4	.2956	14 35.0	5.37
	10	.821	.4834	.0692	10.36	20 4.8	.2962	14 31.2	5.26
	11	+0.831	−0.4825	+0.0707	10.38	20 6.2	1.2969	14 27.4	−5.16
	12	.840	.4815	.0722	10.40	20 7.6	.2975	14 23.6	5.05
	13	.850	.4805	.0737	10.42	20 9.0	.2981	14 19.8	4.94
	14	.860	.4794	.0751	10.44	20 10.4	.2986	14 16.1	4.83
	15	.870	.4783	.0766	10.46	20 11.8	.2992	14 12.3	4.72
	16	.880	.4772	.0780	10.48	20 13.2	.2998	14 8.6	4.60
	17	.891	.4760	.0794	10.51	20 14.6	.3004	14 4.9	4.49
	18	.901	.4748	.0808	10.53	20 16.0	.3009	14 1.2	4.38
	19	.911	.4735	.0822	10.56	20 17.4	.3015	13 57.5	4.26
	20	.922	.4722	.0835	10.58	20 18.8	.3020	13 53.8	4.15
	21	+0.932	−0.4708	+0.0848	10.61	20 20.2	1.3025	13 50.1	−4.03
	22	.943	.4694	.0861	10.64	20 21.6	.3030	13 46.5	3.91
	23	.954	.4679	.0873	10.67	20 23.0	.3035	13 42.8	3.78
	24	.964	.4664	.0885	10.70	20 24.3	.3040	13 39.2	3.66
	25	.975	.4649	.0897	10.73	20 25.7	.3045	13 35.6	3.54
	26	.986	.4633	.0909	10.76	20 27.1	.3049	13 31.9	3.42
	27	0.997	.4617	.0920	10.79	20 28.5	.3054	13 28.3	3.29
	28	1.008	.4600	.0931	10.83	20 29.8	.3058	13 24.7	3.17
	29	.019	.4583	.0942	10.86	20 31.2	.3063	13 21.1	3.04
	30	.030	.4565	.0952	10.90	20 32.5	.3067	13 17.5	2.92
	31	+1.041	−0.4547	+0.0962	10.94	20 33.9	1.3071	13 13.9	−2.79
Juni	1	.052	.4528	.0971	10.97	20 35.2	.3074	13 10.3	2.66
	2	.064	.4509	.0980	11.01	20 36.5	.3078	13 6.8	2.53
	3	.075	.4489	.0988	11.05	20 37.8	.3081	13 3.2	2.40
	4	.086	.4469	.0996	11.09	20 39.1	.3084	12 59.7	2.27
	5	.098	.4448	.1004	11.13	20 40.4	.3087	12 56.1	2.14
	6	.109	.4427	.1011	11.18	20 41.7	.3090	12 52.6	2.01
	7	.121	.4405	.1018	11.22	20 42.9	.3093	12 49.0	1.88
	8	.132	.4383	.1025	11.26	20 44.2	.3095	12 45.5	1.74
	9	.144	.4360	.1031	11.31	20 45.4	.3098	12 42.0	1.61
	10	+1.156	−0.4337	+0.1037	11.36	20 46.6	1.3100	12 38.4	−1.48
	11	.167	.4313	.1042	11.40	20 47.8	.3102	12 34.9	1.34
	12	.179	.4289	.1046	11.45	20 49.0	.3104	12 31.4	1.21
	13	.190	.4265	.1050	11.50	20 50.2	.3105	12 27.9	1.08
	14	.202	.4240	.1053	11.55	20 51.4	.3106	12 24.4	0.94
	15	.214	.4215	.1056	11.60	20 52.5	.3108	12 20.8	0.81
	16	.226	.4190	.1059	11.65	20 53.6	.3109	12 17.3	0.67
	17	.237	.4164	.1061	11.70	20 54.7	.3110	12 13.8	0.54
	18	.249	.4138	.1063	11.75	20 55.8	.3110	12 10.3	0.40
	19	.261	.4112	.1064	11.81	20 56.9	.3111	12 6.8	0.26

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	20	$+1^s.273$	−0.4085	+0.1065	11″.86	$20^h 58^m.0$	1.3111	$12^h 3^m.3$	−0″.13
	21	.285	.4058	.1065	11.92	20 59.0	.3111	11 59.8	+0.01
	22	.296	.4030	.1065	11.97	21 0.0	.3111	11 56.4	0.14
	23	.308	.4002	.1064	12.03	21 1.0	.3111	11 52.9	0.28
	24	.320	.3974	.1063	12.08	21 2.0	.3110	11 49.3	0.41
	25	.332	.3945	.1061	12.14	21 3.0	.3110	11 45.9	0.55
	26	.343	.3916	.1059	12.20	21 4.0	.3109	11 42.3	0.68
	27	.355	.3887	.1056	12.26	21 4.9	.3108	11 38.8	0.82
	28	.367	.3858	.1053	12.32	21 5.8	.3106	11 35.3	0.95
	29	.379	.3828	.1049	12.38	21 6.7	.3105	11 31.8	1.09
	30	+1.390	−0.3798	+0.1045	12.44	21 7.6	1.3103	11 28.3	+1.22
Juli	1	.402	.3768	.1041	12.50	21 8.5	.3102	11 24.8	1.36
	2	.413	.3738	.1036	12.56	21 9.3	.3100	11 21.3	1.49
	3	.425	.3707	.1031	12.62	21 10.1	.3098	11 17.8	1.62
	4	.437	.3676	.1025	12.68	21 10.9	.3095	11 14.2	1.76
	5	.448	.3645	.1018	12.74	21 11.7	.3093	11 10.7	1.89
	6	.460	.3614	.1011	12.80	21 12.5	.3090	11 7.2	2.02
	7	.471	.3583	.1004	12.87	21 13.2	.3087	11 3.7	2.15
	8	.483	.3552	.0996	12.93	21 13.9	.3084	11 0.1	2.28
	9	.494	.3520	.0988	12.99	21 14.7	.3081	10 56.6	2.41
	10	+1.505	−0.3489	+0.0980	13.06	21 15.4	1.3078	10 53.0	+2.54
	11	.517	.3457	.0971	13.12	21 16.1	.3074	10 49.5	2.67
	12	.528	.3426	.0962	13.18	21 16.7	.3070	10 45.9	2.80
	13	.539	.3394	.0952	13.25	21 17.4	.3066	10 42.3	2.92
	14	.550	.3362	.0942	13.31	21 18.0	.3062	10 38.7	3.05
	15	.561	.3330	.0931	13.38	21 18.6	.3058	10 35.2	3.17
	16	.572	.3298	.0920	13.44	21 19.2	.3054	10 31.6	3.30
	17	.583	.3266	.0909	13.50	21 19.8	.3050	10 28.0	3.42
	18	.594	.3234	.0898	13.57	21 20.4	.3045	10 24.4	3.54
	19	.604	.3202	.0886	13.63	21 20.9	.3040	10 20.8	3.67
	20	+1.615	−0.3170	+0.0874	13.69	21 21.5	1.3035	10 17.1	+3.79
	21	.626	.3138	.0862	13.76	21 22.0	.3031	10 13.5	3.91
	22	.637	.3106	.0849	13.82	21 22.5	.3026	10 9.9	4.03
	23	.647	.3075	.0836	13.89	21 23.0	.3020	10 6.2	4.14
	24	.657	.3043	.0823	13.95	21 23.5	.3015	10 2.5	4.26
	25	.668	.3011	.0809	14.01	21 24.0	.3009	9 58.9	4.38
	26	.678	.2979	.0795	14.08	21 24.5	.3004	9 55.2	4.49
	27	.688	.2948	.0781	14.14	21 24.9	.2998	9 51.5	4.60
	28	.698	.2917	.0767	14.20	21 25.3	.2993	9 47.8	4.71
	29	.708	.2886	.0753	14.27	21 25.8	.2987	9 44.1	4.82
	30	+1.718	−0.2855	+0.0739	14.33	21 26.2	1.2981	9 40.4	+4.93
	31	.728	.2824	.0725	14.39	21 26.6	.2975	9 36.7	5.04
August	1	.738	.2793	.0710	14.45	21 27.0	.2969	9 32.9	5.15
	2	.748	.2762	.0695	14.51	21 27.4	.2963	9 29.2	5.25
	3	.757	.2731	.0680	14.57	21 27.8	.2957	9 25.4	5.36
	4	.767	.2701	.0664	14.64	21 28.1	.2951	9 21.6	5.46
	5	.776	.2671	.0649	14.70	21 28.5	.2945	9 17.8	5.56
	6	.786	.2641	.0634	14.76	21 28.8	.2939	9 14.0	5.66
	7	.795	.2611	.0619	14.81	21 29.1	.2933	9 10.2	5.75
	8	.804	.2582	.0604	14.87	21 29.5	.2926	9 6.4	5.85

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	9	+1.813	−0.2553	+0.0588	14.″93	$21^h 29^m.8$	1.2920	$9^h 2^m.5$	+5.″94
	10	.822	.2524	.0573	14.99	21 30.1	.2914	8 58.7	6.04
	11	.831	.2495	.0557	15.05	21 30.4	.2907	8 54.8	6.13
	12	.840	.2466	.0542	15.11	21 30.7	.2901	8 50.9	6.22
	13	.849	.2437	.0527	15.16	21 31.0	.2895	8 47.0	6.30
	14	.858	.2409	.0512	15.22	21 31.3	.2889	8 43.1	6.39
	15	.866	.2381	.0497	15.28	21 31.6	.2882	8 39.2	6.47
	16	.875	.2353	.0482	15.33	21 31.9	.2876	8 35.3	6.56
	17	.883	.2326	.0467	15.39	21 32.2	.2870	8 31.4	6.64
	18	.891	.2299	.0452	15.44	21 32.4	.2864	8 27.4	6.72
	19	+1.900	−0.2272	+0.0438	15.50	21 32.7	1.2858	8 23.4	+6.79
	20	.908	.2245	.0424	15.55	21 33.0	.2852	8 19.5	6.87
	21	.916	.2218	.0410	15.60	21 33.2	.2846	8 15.5	6.94
	22	.924	.2192	.0396	15.66	21 33.5	.2840	8 11.5	7.01
	23	.932	.2166	.0382	15.71	21 33.7	.2835	8 7.5	7.08
	24	.940	.2141	.0369	15.76	21 34.0	.2829	8 3.5	7.15
	25	.948	.2116	.0356	15.81	21 34.2	.2823	7 59.4	7.21
	26	.956	.2091	.0343	15.86	21 34.5	.2818	7 55.3	7.28
	27	.963	.2066	.0330	15.91	21 34.7	.2813	7 51.3	7.34
	28	.971	.2042	.0318	15.96	21 35.0	.2807	7 47.2	7.39
	29	+1.978	−0.2018	+0.0306	16.01	21 35.2	1.2802	7 43.1	+7.45
	30	.986	.1994	.0294	16.05	21 35.5	.2798	7 39.0	7.50
	31	1.993	.1970	.0283	16.10	21 35.7	.2793	7 34.9	7.56
Septbr.	1	2.001	.1947	.0272	16.15	21 36.0	.2788	7 30.8	7.61
	2	.008	.1924	.0261	16.19	21 36.2	.2784	7 26.6	7.66
	3	.015	.1901	.0251	16.24	21 36.5	.2780	7 22.5	7.70
	4	.023	.1879	.0241	16.28	21 36.7	.2775	7 18.3	7.75
	5	.030	.1857	.0232	16.33	21 37.0	.2771	7 14.2	7.79
	6	.037	.1835	.0223	16.37	21 37.2	.2768	7 10.0	7.83
	7	.044	.1813	.0215	16.42	21 37.5	.2764	7 5.9	7.86
	8	+2.051	−0.1792	+0.0207	16.46	21 37.8	1.2761	7 1.7	+7.90
	9	.058	.1771	.0200	16.50	21 38.0	.2758	6 57.5	7.93
	10	.065	.1750	.0193	16.54	21 38.3	.2755	6 53.3	7.96
	11	.072	.1729	.0187	16.58	21 38.6	.2752	6 49.1	7.99
	12	.078	.1709	.0181	16.62	21 38.8	.2749	6 44.8	8.02
	13	.085	.1689	.0175	16.66	21 39.1	.2747	6 40.6	8.04
	14	.092	.1669	.0170	16.70	21 39.4	.2745	6 36.4	8.06
	15	.099	.1650	.0166	16.74	21 39.7	.2743	6 32.1	8.08
	16	.106	.1630	.0162	16.78	21 40.0	.2741	6 27.9	8.10
	17	.112	.1611	.0159	16.82	21 40.3	.2740	6 23.6	8.11
	18	+2.119	−0.1592	+0.0156	16.86	21 40.6	1.2739	6 19.4	+8.12
	19	.126	.1573	.0154	16.90	21 40.9	.2738	6 15.1	8.13
	20	.132	.1554	.0152	16.93	21 41.2	.2737	6 10.8	8.14
	21	.139	.1536	.0151	16.97	21 41.5	.2737	6 6.6	8.15
	22	.146	.1518	.0150	17.01	21 41.8	.2736	6 2.3	8.15
	23	.152	.1500	.0150	17.04	21 42.1	.2736	5 58.0	8.15
	24	.159	.1482	.0150	17.08	21 42.5	.2737	5 53.8	8.15
	25	.166	.1464	.0151	17.12	21 42.8	.2737	5 49.5	8.14
	26	.172	.1446	.0153	17.15	21 43.2	.2738	5 45.2	8.14
	27	.179	.1429	.0155	17.19	21 43.5	.2739	5 40.9	8.13

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	28	$+2^s.186$	−0.1411	+0.0158	17.″22	$21^h 43^m.9$	1.2740	$5^h 36^m.6$	+8.″11
	29	.193	.1394	.0161	17.26	21 44.2	.2741	5 32.3	8.10
	30	.199	.1377	.0165	17.29	21 44.6	.2743	5 28.1	8.08
Oktbr.	1	.206	.1360	.0169	17.33	21 45.0	.2745	5 23.8	8.06
	2	.213	.1343	.0174	17.36	21 45.4	.2747	5 19.5	8.04
	3	.220	.1326	.0180	17.39	21 45.8	.2749	5 15.2	8.02
	4	.227	.1309	.0186	17.43	21 46.2	.2752	5 11.0	7.99
	5	.233	.1293	.0193	17.46	21 46.6	.2755	5 6.7	7.96
	6	.240	.1276	.0200	17.49	21 47.0	.2758	5 2.4	7.93
	7	.247	.1259	.0208	17.53	21 47.4	.2761	4 58.2	7.90
	8	+2.255	−0.1243	+0.0216	17.56	21 47.8	1.2765	4 53.9	+7.86
	9	.262	.1226	.0225	17.59	21 48.3	.2768	4 49.7	7.83
	10	.269	.1209	.0234	17.63	21 48.7	.2772	4 45.4	7.79
	11	.276	.1192	.0243	17.66	21 49.1	.2776	4 41.1	7.74
	12	.283	.1175	.0253	17.70	21 49.6	.2780	4 36.9	7.70
	13	.290	.1158	.0263	17.73	21 50.1	.2784	4 32.7	7.65
	14	.298	.1141	.0274	17.76	21 50.5	.2789	4 28.5	7.60
	15	.305	.1124	.0285	17.80	21 51.0	.2794	4 24.2	7.55
	16	.313	.1107	.0297	17.83	21 51.5	.2799	4 20.0	7.49
	17	.320	.1090	.0310	17.87	21 52.0	.2804	4 15.8	7.43
	18	+2.328	−0.1073	+0.0322	17.90	21 52.5	1.2809	4 11.6	+7.37
	19	.336	.1055	.0335	17.94	21 53.0	.2815	4 7.4	7.31
	20	.343	.1037	.0348	17.97	21 53.5	.2820	4 3.3	7.25
	21	.351	.1019	.0361	18.01	21 54.0	.2826	3 59.1	7.19
	22	.359	.1001	.0374	18.04	21 54.5	.2831	3 54.9	7.12
	23	.367	.0983	.0388	18.08	21 55.0	.2837	3 50.8	7.05
	24	.375	.0965	.0402	18.12	21 55.5	.2843	3 46.6	6.97
	25	.384	.0946	.0417	18.15	21 56.1	.2849	3 42.5	6.90
	26	.392	.0927	.0432	18.19	21 56.6	.2855	3 38.3	6.82
	27	.400	.0908	.0447	18.23	21 57.2	.2861	3 34.2	6.75
	28	+2.409	−0.0889	+0.0462	18.27	21 57.7	1.2868	3 30.1	+6.67
	29	.417	.0870	.0477	18.31	21 58.3	.2874	3 26.0	6.58
	30	.426	.0850	.0492	18.35	21 58.8	.2880	3 21.9	6.50
	31	.435	.0830	.0508	18.39	21 59.4	.2887	3 17.8	6.41
Novbr.	1	.443	.0810	.0524	18.43	21 59.9	.2893	3 13.8	6.32
	2	.452	.0790	.0540	18.47	22 0.5	.2900	3 9.7	6.23
	3	.462	.0769	.0556	18.51	22 1.1	.2907	3 5.6	6.14
	4	.471	.0748	.0572	18.55	22 1.6	.2913	3 1.6	6.04
	5	.480	.0727	.0588	18.60	22 2.2	.2920	2 57.6	5.95
	6	.489	.0705	.0604	18.64	22 2.8	.2926	2 53.6	5.85
	7	+2.499	−0.0683	+0.0620	18.68	22 3.3	1.2933	2 49.5	+5.75
	8	.508	.0660	.0636	18.73	22 3.9	.2939	2 45.6	5.65
	9	.518	.0637	.0652	18.77	22 4.5	.2946	2 41.6	5.54
	10	.527	.0614	.0668	18.82	22 5.1	.2952	2 37.6	5.44
	11	.537	.0590	.0684	18.87	22 5.6	.2959	2 33.6	5.33
	12	.547	.0566	.0699	18.92	22 6.2	.2965	2 29.7	5.22
	13	.557	.0542	.0714	18.96	22 6.8	.2971	2 25.7	5.11
	14	.567	.0518	.0729	19.01	22 7.4	.2978	2 21.8	5.00
	15	.577	.0493	.0744	19.06	22 7.9	.2984	2 17.8	4.88
	16	.588	.0468	.0760	19.11	22 8.5	.2990	2 13.9	4.77

1838

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	17	+2.598	−0.0442	+0.0775	19.17	22h 9.1	1.2996	2h10.0	+4.65
	18	.609	.0416	.0789	19.22	22 9.7	.3002	2 6.1	4.53
	19	.619	.0390	.0804	19.27	22 10.2	.3008	2 2.2	4.41
	20	.630	.0363	.0818	19.32	22 10.8	.3013	1 58.3	4.29
	21	.641	.0336	.0832	19.38	22 11.4	.3019	1 54.5	4.17
	22	.651	.0308	.0846	19.43	22 11.9	.3025	1 50.6	4.04
	23	.662	.0280	.0860	19.49	22 12.5	.3030	1 46.8	3.92
	24	.673	.0252	.0873	19.55	22 13.0	.3035	1 42.9	3.79
	25	.684	.0223	.0886	19.60	22 13.6	.3040	1 39.1	3.66
	26	.696	.0194	.0899	19.66	22 14.1	.3045	1 35.2	3.53
	27	+2.707	−0.0164	+0.0911	19.72	22 14.6	1.3050	1 31.4	+3.40
	28	.718	.0134	.0923	19.78	22 15.2	.3055	1 27.6	3.27
	29	.730	.0104	.0934	19.84	22 15.7	.3059	1 23.8	3.14
	30	.741	.0073	.0945	19.90	22 16.2	.3064	1 19.9	3.00
Dezbr.	1	.753	.0042	.0956	19.97	22 16.7	.3068	1 16.1	2.87
	2	.764	−0.0011	.0966	20.03	22 17.2	.3072	1 12.3	2.73
	3	.776	+0.0020	.0975	20.09	22 17.7	.3076	1 8.5	2.60
	4	.788	.0052	.0984	20.16	22 18.2	.3079	1 4.8	2.46
	5	.799	.0084	.0993	20.22	22 18.7	.3083	1 1.0	2.32
	6	.811	.0117	.1001	20.29	22 19.2	.3086	0 57.2	2.18
	7	+2.823	+0.0150	+0.1009	20.35	22 19.7	1.3089	0 53.4	+2.04
	8	.835	.0183	.1017	20.42	22 20.1	.3092	0 49.7	1.90
	9	.847	.0217	.1024	20.49	22 20.6	.3095	0 45.9	1.76
	10	.859	.0251	.1030	20.56	22 21.0	.3097	0 42.2	1.62
	11	.871	.0285	.1036	20.62	22 21.5	.3100	0 38.4	1.48
	12	.883	.0319	.1041	20.69	22 21.9	.3102	0 34.6	1.34
	13	.895	.0354	.1046	20.76	22 22.3	.3104	0 30.9	1.19
	14	.908	.0389	.1050	20.83	22 22.8	.3105	0 27.2	1.05
	15	.920	.0424	.1054	20.90	22 23.2	.3107	0 23.4	0.91
	16	.932	.0459	.1057	20.97	22 23.6	.3108	0 19.7	0.76
	17	+2.944	+0.0495	+0.1060	21.05	22 23.9	1.3109	0 15.9	+0.62
	18	.957	.0531	.1062	21.12	22 24.3	.3110	0 12.2	0.48
	19	.969	.0567	.1064	21.19	22 24.7	.3111	0 8.5	0.33
	20	.981	.0604	.1065	21.26	22 25.1	.3111	0 4.7	0.18
	21	2.993	.0640	.1065	21.34	22 25.4	.3111	0 1.0	+0.04
	22	3.006	.0677	.1065	21.41	22 25.8	.3111	23 57.3	−0.11
	23	.018	.0714	.1064	21.48	22 26.1	.3111	23 53.5	0.25
	24	.030	.0751	.1063	21.56	22 26.4	.3110	23 49.8	0.40
	25	.043	.0788	.1061	21.63	22 26.7	.3110	23 46.0	0.54
	26	.055	.0825	.1059	21.71	22 27.0	.3109	23 42.3	0.69
	27	+3.067	+0.0862	+0.1056	21.78	22 27.3	1.3108	23 38.5	−0.83
	28	.079	.0900	.1053	21.86	22 27.6	.3107	23 34.8	0.97
	29	.092	.0937	.1049	21.93	22 27.9	.3105	23 31.0	1.12
	30	.104	.0975	.1045	22.01	22 28.2	.3103	23 27.3	1.26
	31	.116	.1013	.1041	22.08	22 28.4	.3101	23 23.5	1.40

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	+0^s.057	−0.5709	+0.1033	8″.60	18^h 9^m.8	1.3099	23^h 19^m.8	−1″.54
	2	.069	.5703	.1027	8.62	18 11.9	.3096	23 16.0	1.69
	3	.081	.5697	.1021	8.63	18 14.0	.3094	23 12.2	1.83
	4	.093	.5690	.1014	8.64	18 16.0	.3091	23 8.5	1.97
	5	.105	.5682	.1007	8.66	18 18.1	.3088	23 4.7	2.11
	6	.117	.5674	.0999	8.67	18 20.1	.3085	23 0.9	2.25
	7	.128	.5665	.0990	8.69	18 22.1	.3082	22 57.1	2.39
	8	.140	.5656	.0981	8.71	18 24.1	.3078	22 53.3	2.53
	9	.152	.5646	.0972	8.73	18 26.0	.3074	22 49.5	2.66
	10	.164	.5636	.0962	8.75	18 28.0	.3070	22 45.7	2.80
	11	+0.175	−0.5625	+0.0951	8.77	18 29.9	1.3066	22 41.9	−2.94
	12	.187	.5613	.0940	8.80	18 31.8	.3062	22 38.1	3.07
	13	.198	.5601	.0929	8.82	18 33.6	.3057	22 34.3	3.20
	14	.210	.5589	.0917	8.85	18 35.5	.3052	22 30.4	3.34
	15	.221	.5576	.0905	8.87	18 37.3	.3048	22 26.6	3.47
	16	.232	.5562	.0892	8.90	18 39.1	.3043	22 22.7	3.60
	17	.243	.5548	.0879	8.93	18 40.9	.3038	22 18.9	3.73
	18	.254	.5533	.0866	8.96	18 42.6	.3033	22 15.0	3.86
	19	.265	.5518	.0853	8.99	18 44.4	.3027	22 11.1	3.98
	20	.276	.5503	.0839	9.02	18 46.1	.3022	22 7.2	4.11
	21	+0.287	−0.5488	+0.0825	9.05	18 47.7	1.3016	22 3.3	−4.23
	22	.298	.5472	.0811	9.08	18 49.4	.3010	21 59.4	4.36
	23	.308	.5456	.0796	9.11	18 51.0	.3004	21 55.5	4.48
	24	.319	.5439	.0781	9.14	18 52.6	.2998	21 51.6	4.60
	25	.329	.5422	.0766	9.18	18 54.1	.2992	21 47.7	4.72
	26	.340	.5405	.0751	9.21	18 55.6	.2986	21 43.7	4.84
	27	.350	.5388	.0736	9.25	18 57.1	.2980	21 39.8	4.95
	28	.360	.5371	.0721	9.28	18 58.6	.2974	21 35.8	5.07
	29	.370	.5354	.0705	9.32	19 0.1	.2968	21 31.8	5.18
	30	.380	.5336	.0689	9.35	19 1.5	.2961	21 27.9	5.29
	31	+0.390	−0.5318	+0.0673	9.39	19 2.9	1.2955	21 23.9	−5.40
Februar	1	.400	.5300	.0657	9.42	19 4.3	.2948	21 19.9	5.51
	2	.410	.5282	.0641	9.46	19 5.6	.2942	21 15.8	5.61
	3	.419	.5264	.0625	9.50	19 6.9	.2935	21 11.8	5.71
	4	.429	.5246	.0609	9.53	19 8.2	.2928	21 7.8	5.81
	5	.438	.5228	.0593	9.57	19 9.5	.2922	21 3.7	5.91
	6	.447	.5210	.0577	9.60	19 10.7	.2915	20 59.7	6.01
	7	.456	.5191	.0561	9.64	19 11.9	.2908	20 55.6	6.11
	8	.466	.5173	.0545	9.68	19 13.1	.2902	20 51.5	6.20
	9	.475	.5155	.0529	9.71	19 14.3	.2895	20 47.4	6.29
	10	+0.483	−0.5137	+0.0513	9.75	19 15.5	1.2889	20 43.3	−6.38
	11	.492	.5119	.0497	9.79	19 16.6	.2882	20 39.2	6.47
	12	.501	.5101	.0481	9.82	19 17.7	.2876	20 35.1	6.56
	13	.510	.5083	.0466	9.86	19 18.8	.2870	20 30.9	6.64
	14	.518	.5065	.0451	9.89	19 19.9	.2863	20 26.8	6.73
	15	.527	.5048	.0436	9.93	19 20.9	.2857	20 22.6	6.81
	16	.535	.5030	.0421	9.96	19 22.0	.2851	20 18.4	6.88
	17	.543	.5013	.0406	10.00	19 23.0	.2845	20 14.3	6.96
	18	.551	.4995	.0391	10.04	19 24.0	.2839	20 10.1	7.03
	19	.559	.4978	.0377	10.07	19 25.0	.2833	20 5.9	7.10

1839

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 20	$+0^s.567$	−0.4961	+0.0363	10.″10	$19^h26^m.0$	1.2827	$20^h\ 1^m.7$	−7.″17
21	.575	.4944	.0350	10.14	19 26.9	.2821	19 57.5	7.24
22	.583	.4927	.0336	10.17	19 27.9	.2815	19 53.2	7.30
23	.591	.4911	.0323	10.20	19 28.8	.2810	19 49.0	7.37
24	.598	.4895	.0310	10.24	19 29.7	.2804	19 44.8	7.43
25	.606	.4880	.0298	10.27	19 30.6	.2799	19 40.5	7.49
26	.614	.4864	.0286	10.30	19 31.5	.2794	19 36.2	7.54
27	.621	.4848	.0275	10.33	19 32.4	.2789	19 32.0	7.59
28	.628	.4833	.0264	10.36	19 33.3	.2785	19 27.7	7.64
März 1	.636	.4818	.0254	10.39	19 34.2	.2780	19 23.4	7.69
2	+0.643	−0.4804	+0.0244	10.42	19 35.0	1.2776	19 19.1	−7.74
3	.650	.4790	.0234	10.45	19 35.9	.2772	19 14.9	7.78
4	.657	.4776	.0225	10.48	19 36.7	.2768	19 10.6	7.82
5	.664	.4762	.0217	10.50	19 37.5	.2765	19 6.3	7.86
6	.671	.4748	.0209	10.53	19 38.4	.2761	19 2.0	7.90
7	.678	.4734	.0201	10.56	19 39.2	.2758	18 57.6	7.93
8	.685	.4721	.0194	10.58	19 40.0	.2755	18 53.3	7.96
9	.692	.4708	.0187	10.61	19 40.8	.2752	18 49.0	7.99
10	.699	.4695	.0181	10.64	19 41.7	.2749	18 44.7	8.02
11	.706	.4683	.0175	10.66	19 42.5	.2747	18 40.4	8.04
12	+0.713	−0.4671	+0.0170	10.68	19 43.3	1.2745	18 36.0	−8.06
13	.720	.4659	.0165	10.71	19 44.1	.2743	18 31.7	8.08
14	.727	.4647	.0161	10.73	19 44.9	.2741	18 27.4	8.10
15	.733	.4636	.0158	10.75	19 45.7	.2740	18 23.0	8.11
16	.740	.4625	.0156	10.78	19 46.5	.2739	18 18.7	8.12
17	.747	.4615	.0154	10.80	19 47.3	.2738	18 14.4	8.13
18	.754	.4605	.0152	10.82	19 48.2	.2737	18 10.0	8.14
19	.760	.4595	.0151	10.84	19 49.0	.2737	18 5.7	8.15
20	.767	.4585	.0150	10.86	19 49.8	.2736	18 1.4	8.15
21	.774	.4575	.0150	10.88	19 50.6	.2736	17 57.0	8.15
22	+0.780	−0.4565	+0.0151	10.90	19 51.4	1.2737	17 52.7	−8.14
23	.787	.4556	.0152	10.92	19 52.3	.2737	17 48.4	8.14
24	.794	.4547	.0154	10.93	19 53.1	.2738	17 44.1	8.13
25	.800	.4538	.0156	10.95	19 53.9	.2739	17 39.8	8.12
26	.807	.4529	.0159	10.97	19 54.8	.2740	17 35.5	8.11
27	.814	.4521	.0162	10.99	19 55.6	.2742	17 31.2	8.09
28	.821	.4513	.0166	11.00	19 56.5	.2744	17 26.9	8.08
29	.827	.4505	.0171	11.02	19 57.4	.2745	17 22.6	8.06
30	.834	.4496	.0176	11.04	19 58.2	.2747	17 18.3	8.03
31	.841	.4488	.0181	11.05	19 59.1	.2750	17 14.0	8.01
April 1	+0.848	−0.4480	+0.0187	11.07	20 0.0	1.2752	17 9.8	−7.98
2	.855	.4472	.0194	11.08	20 0.9	.2755	17 5.5	7.95
3	.862	.4464	.0202	11.10	20 1.8	.2758	17 1.3	7.92
4	.869	.4457	.0210	11.11	20 2.7	.2762	16 57.0	7.89
5	.876	.4450	.0218	11.13	20 3.6	.2765	16 52.8	7.86
6	.883	.4443	.0227	11.14	20 4.6	.2769	16 48.6	7.82
7	.890	.4435	.0236	11.16	20 5.5	.2773	16 44.4	7.77
8	.897	.4428	.0245	11.17	20 6.4	.2777	16 40.1	7.73
9	.904	.4421	.0255	11.19	20 7.4	.2781	16 35.9	7.69
10	.911	.4414	.0265	11.20	20 8.4	.2785	16 31.8	7.64

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	11	$+0^s.919$	−0.4407	+0.0276	$11''.21$	$20^h\ 9^m.3$	1.2790	$16^h27^m.6$	$-7''.59$
	12	.926	.4401	.0287	11.23	20 10.3	.2795	16 23.4	7.54
	13	.934	.4394	.0299	11.24	20 11.3	.2800	16 19.3	7.48
	14	.941	.4387	.0311	11.26	20 12.3	.2805	16 15.1	7.43
	15	.949	.4380	.0323	11.27	20 13.3	.2810	16 11.0	7.37
	16	.956	.4373	.0336	11.28	20 14.3	.2815	16 6.9	7.31
	17	.964	.4366	.0348	11.30	20 15.4	.2820	16 2.8	7.25
	18	.972	.4358	.0361	11.31	20 16.4	.2826	15 58.7	7.18
	19	.980	.4351	.0374	11.33	20 17.5	.2831	15 54.6	7.12
	20	.988	.4343	.0388	11.34	20 18.5	.2837	15 50.6	7.05
	21	+0.996	−0.4335	+0.0402	11.36	20 19.6	1.2843	15 46.5	−6.98
	22	1.004	.4327	.0416	11.38	20 20.7	.2849	15 42.5	6.90
	23	.012	.4319	.0430	11.39	20 21.8	.2855	15 38.4	6.83
	24	.021	.4310	.0445	11.41	20 22.9	.2861	15 34.4	6.75
	25	.029	.4302	.0460	11.43	20 24.0	.2867	15 30.4	6.67
	26	.037	.4293	.0475	11.44	20 25.1	.2873	15 26.4	6.59
	27	.046	.4284	.0490	11.46	20 26.2	.2879	15 22.5	6.51
	28	.054	.4275	.0505	11.48	20 27.3	.2886	15 18.5	6.43
	29	.063	.4266	.0520	11.50	20 28.4	.2892	15 14.6	6.34
	30	.072	.4256	.0536	11.52	20 29.6	.2898	15 10.6	6.25
Mai	1	+1.081	−0.4246	+0.0551	11.54	20 30.7	1.2905	15 6.7	−6.16
	2	.090	.4236	.0566	11.56	20 31.9	.2911	15 2.8	6.07
	3	.099	.4225	.0581	11.58	20 33.0	.2917	14 58.9	5.98
	4	.108	.4214	.0597	11.60	20 34.2	.2924	14 55.1	5.88
	5	.117	.4203	.0612	11.62	20 35.4	.2930	14 51.2	5.79
	6	.126	.4192	.0628	11.65	20 36.5	.2936	14 47.4	5.69
	7	.135	.4181	.0643	11.67	20 37.7	.2942	14 43.5	5.59
	8	.145	.4169	.0659	11.69	20 38.9	.2949	14 39.7	5.49
	9	.154	.4156	.0674	11.72	20 40.1	.2955	14 35.9	5.39
	10	.164	.4143	.0689	11.74	20 41.3	.2961	14 32.0	5.29
	11	+1.174	−0.4130	+0.0704	11.77	20 42.4	1.2967	14 28.2	−5.18
	12	.184	.4116	.0719	11.80	20 43.6	.2973	14 24.5	5.07
	13	.193	.4102	.0734	11.82	20 44.8	.2979	14 20.7	4.96
	14	.203	.4088	.0748	11.85	20 46.0	.2985	14 17.0	4.85
	15	.213	.4074	.0763	11.88	20 47.2	.2991	14 13.2	4.74
	16	.223	.4059	.0777	11.91	20 48.4	.2997	14 9.5	4.63
	17	.234	.4044	.0791	11.94	20 49.6	.3002	14 5.8	4.52
	18	.244	.4028	.0804	11.98	20 50.7	.3008	14 2.1	4.41
	19	.254	.4011	.0818	12.01	20 51.9	.3013	13 58.4	4.29
	20	.265	.3994	.0831	12.04	20 53.1	.3019	13 54.7	4.17
	21	+1.275	−0.3977	+0.0844	12.08	20 54.3	1.3024	13 51.0	−4.05
	22	.286	.3959	.0857	12.11	20 55.4	.3029	13 47.4	3.93
	23	.296	.3941	.0870	12.15	20 56.6	.3034	13 43.7	3.81
	24	.307	.3922	.0882	12.19	20 57.7	.3039	13 40.1	3.69
	25	.318	.3903	.0894	12.23	20 58.9	.3044	13 36.4	3.57
	26	.329	.3884	.0906	12.26	21 0.0	.3048	13 32.8	3.45
	27	.340	.3864	.0917	12.30	21 1.2	.3053	13 29.2	3.33
	28	.351	.3844	.0928	12.34	21 2.3	.3057	13 25.6	3.20
	29	.362	.3823	.0939	12.39	21 3.4	.3062	13 22.0	3.08
	30	.373	.3802	.0949	12.43	21 4.6	.3066	13 18.4	2.95

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	31	+1.384	−0.3780	+0.0959	12″.47	21h 5m.7	1.3070	13h14m.8	−2″.82
Juni	1	.395	.3758	.0969	12.52	21 6.8	.3073	13 11.2	2.69
	2	.406	.3736	.0978	12.56	21 7.8	.3077	13 7.6	2.56
	3	.418	.3713	.0987	12.61	21 8.9	.3080	13 4.1	2.43
	4	.429	.3690	.0995	12.65	21 10.0	.3083	13 0.5	2.30
	5	.441	.3666	.1002	12.70	21 11.0	.3086	12 57.0	2.17
	6	.452	.3642	.1009	12.75	21 12.1	.3089	12 53.4	2.04
	7	.464	.3618	.1016	12.80	21 13.1	.3092	12 49.9	1.91
	8	.475	.3593	.1023	12.85	21 14.1	.3095	12 46.3	1.78
	9	.487	.3567	.1029	12.90	21 15.1	.3097	12 42.8	1.64
	10	+1.498	−0.3541	+0.1035	12.95	21 16.1	1.3099	12 39.3	−1.51
	11	.510	.3515	.1040	13.00	21 17.1	.3101	12 35.8	1.38
	12	.522	.3489	.1045	13.06	21 18.1	.3103	12 32.3	1.24
	13	.533	.3462	.1049	13.11	21 19.0	.3105	12 28.7	1.11
	14	.545	.3435	.1053	13.16	21 20.0	.3106	12 25.2	0.97
	15	.557	.3407	.1056	13.22	21 20.9	.3107	12 21.7	0.84
	16	.568	.3379	.1058	13.27	21 21.8	.3108	12 18.2	0.70
	17	.580	.3351	.1060	13.33	21 22.7	.3109	12 14.7	0.57
	18	.592	.3323	.1062	13.39	21 23.6	.3110	12 11.2	0.43
	19	.604	.3294	.1063	13.45	21 24.4	.3111	12 7.7	0.30
	20	+1.615	−0.3265	+0.1064	13.51	21 25.3	1.3111	12 4.2	−0.16
	21	.627	.3235	.1065	13.56	21 26.1	.3111	12 0.7	−0.03
	22	.639	.3206	.1065	13.62	21 26.9	.3111	11 57.2	+0.11
	23	.651	.3176	.1064	13.68	21 27.7	.3111	11 53.7	0.24
	24	.663	.3146	.1063	13.74	21 28.5	.3111	11 50.2	0.38
	25	.674	.3115	.1062	13.81	21 29.3	.3110	11 46.7	0.51
	26	.686	.3084	.1060	13.87	21 30.1	.3109	11 43.2	0.65
	27	.698	.3053	.1057	13.93	21 30.8	.3108	11 39.7	0.78
	28	.710	.3022	.1054	13.99	21 31.6	.3107	11 36.3	0.92
	29	.721	.2991	.1050	14.05	21 32.3	.3105	11 32.7	1.05
	30	+1.733	−0.2960	+0.1046	14.12	21 33.0	1.3104	11 29.2	+1.19
Juli	1	.745	.2928	.1042	14.18	21 33.7	.3102	11 25.7	1.32
	2	.756	.2896	.1037	14.25	21 34.3	.3100	11 22.1	1.46
	3	.768	.2864	.1032	14.31	21 35.0	.3098	11 18.6	1.59
	4	.779	.2832	.1026	14.37	21 35.6	.3096	11 15.1	1.72
	5	.791	.2800	.1020	14.44	21 36.2	.3093	11 11.6	1.86
	6	.802	.2768	.1013	14.50	21 36.8	.3091	11 8.1	1.99
	7	.814	.2735	.1005	14.57	21 37.4	.3088	11 4.5	2.12
	8	.825	.2703	.0998	14.63	21 38.0	.3085	11 1.0	2.25
	9	.837	.2670	.0990	14.70	21 38.6	.3082	10 57.4	2.38
	10	+1.848	−0.2638	+0.0982	14.76	21 39.1	1.3078	10 53.9	+2.51
	11	.859	.2605	.0973	14.83	21 39.7	.3075	10 50.3	2.64
	12	.871	.2572	.0964	14.89	21 40.2	.3071	10 46.8	2.77
	13	.882	.2539	.0954	14.96	21 40.7	.3067	10 43.2	2.89
	14	.893	.2506	.0944	15.03	21 41.2	.3063	10 39.6	3.02
	15	.904	.2473	.0933	15.09	21 41.7	.3059	10 36.0	3.14
	16	.915	.2440	.0923	15.16	21 42.1	.3055	10 32.5	3.27
	17	.926	.2408	.0912	15.22	21 42.6	.3051	10 28.9	3.39
	18	.936	.2376	.0901	15.29	21 43.0	.3046	10 25.3	3.51
	19	.947	.2344	.0889	15.35	21 43.5	.3042	10 21.7	3.64

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	20	+1.8958	−0.2311	+0.0877	15.″42	$21^h43^m.9$	1.3037	$10^h18^m.0$	+3.″76
	21	.969	.2279	.0865	15.48	21 44.3	.3032	10 14.4	3.88
	22	.979	.2246	.0852	15.55	21 44.7	.3027	10 10.8	4.00
	23	1.990	.2214	.0839	15.61	21 45.1	.3022	10 7.1	4.12
	24	2.000	.2182	.0826	15.68	21 45.5	.3016	10 3.4	4.23
	25	.011	.2150	.0812	15.74	21 45.8	.3011	9 59.8	4.35
	26	.021	.2118	.0798	15.80	21 46.2	.3005	9 56.1	4.46
	27	.031	.2086	.0784	15.87	21 46.5	.3000	9 52.4	4.58
	28	.041	.2054	.0770	15.93	21 46.9	.2994	9 48.7	4.69
	29	.051	.2022	.0756	16.00	21 47.2	.2989	9 45.0	4.80
	30	+2.061	−0.1990	+0.0742	16.06	21 47.5	1.2983	9 41.3	+4.91
	31	.071	.1959	.0728	16.12	21 47.9	.2977	9 37.6	5.01
August	1	.081	.1928	.0714	16.19	21 48.2	.2971	9 33.8	5.12
	2	.091	.1897	.0699	16.25	21 48.5	.2965	9 30.1	5.23
	3	.100	.1866	.0684	16.31	21 48.7	.2959	9 26.3	5.33
	4	.110	.1836	.0668	16.37	21 49.0	.2952	9 22.5	5.43
	5	.119	.1806	.0653	16.43	21 49.3	.2946	9 18.7	5.53
	6	.129	.1776	.0637	16.49	21 49.6	.2940	9 14.9	5.63
	7	.138	.1746	.0622	16.55	21 49.8	.2934	9 11.1	5.73
	8	.147	.1716	.0607	16.61	21 50.1	.2928	9 7.3	5.83
	9	+2.156	−0.1686	+0.0592	16.67	21 50.3	1.2921	9 3.5	+5.92
	10	.165	.1657	.0576	16.73	21 50.6	.2915	8 59.6	6.01
	11	.174	.1628	.0561	16.79	21 50.8	.2909	8 55.8	6.11
	12	.183	.1600	.0546	16.84	21 51.0	.2903	8 51.9	6.20
	13	.192	.1571	.0531	16.90	21 51.3	.2896	8 48.0	6.28
	14	.200	.1542	.0515	16.96	21 51.5	.2890	8 44.1	6.37
	15	.209	.1514	.0500	17.02	21 51.7	.2884	8 40.2	6.46
	16	.218	.1486	.0485	17.07	21 51.9	.2878	8 36.3	6.54
	17	.226	.1459	.0470	17.13	21 52.1	.2871	8 32.3	6.62
	18	.234	.1432	.0456	17.18	21 52.3	.2865	8 28.4	6.70
	19	+2.243	−0.1405	+0.0441	17.23	21 52.5	1.2859	8 24.4	+6.77
	20	.251	.1379	.0427	17.29	21 52.7	.2853	8 20.4	6.85
	21	.259	.1352	.0413	17.34	21 53.0	.2848	8 16.4	6.92
	22	.267	.1326	.0399	17.39	21 53.2	.2842	8 12.4	6.99
	23	.275	.1300	.0385	17.45	21 53.4	.2836	8 8.4	7.06
	24	.283	.1274	.0372	17.50	21 53.6	.2830	8 4.4	7.13
	25	.291	.1249	.0358	17.55	21 53.8	.2825	8 0.3	7.20
	26	.298	.1224	.0345	17.60	21 54.0	.2819	7 56.3	7.26
	27	.306	.1200	.0332	17.65	21 54.2	.2814	7 52.2	7.32
	28	.314	.1176	.0320	17.69	21 54.4	.2809	7 48.2	7.38
	29	+2.321	−0.1152	+0.0308	17.74	21 54.6	1.2804	7 44.1	+7.44
	30	.329	.1128	.0297	17.79	21 54.8	.2799	7 40.0	7.49
	31	.336	.1104	.0286	17.84	21 55.0	.2794	7 35.9	7.54
Septbr.	1	.344	.1081	.0275	17.88	21 55.2	.2789	7 31.8	7.59
	2	.351	.1058	.0264	17.93	21 55.4	.2785	7 27.6	7.64
	3	.358	.1035	.0254	17.98	21 55.6	.2781	7 23.5	7.69
	4	.365	.1013	.0244	18.02	21 55.8	.2776	7 19.3	7.74
	5	.372	.0991	.0235	18.06	21 56.0	.2772	7 15.2	7.78
	6	.380	.0969	.0226	18.11	21 56.2	.2769	7 11.0	7.82
	7	.387	.0948	.0217	18.15	21 56.4	.2765	7 6.9	7.85

1839

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	8	+2s.394	−0.0926	+0.0209	18″.19	21h56m.6	1.2762	7h 2m.7	+7″.89
	9	.401	.0905	.0201	18.24	21 56.9	.2758	6 58.5	7.92
	10	.407	.0884	.0194	18.28	21 57.1	.2755	6 54.3	7.96
	11	.414	.0864	.0187	18.32	21 57.3	.2752	6 50.1	7.99
	12	.421	.0844	.0181	18.36	21 57.5	.2750	6 45.8	8.01
	13	.428	.0824	.0176	18.40	21 57.8	.2747	6 41.6	8.04
	14	.435	.0804	.0171	18.44	21 58.0	.2745	6 37.4	8.06
	15	.441	.0784	.0167	18.48	21 58.3	.2743	6 33.2	8.08
	16	.448	.0764	.0163	18.52	21 58.5	.2742	6 28.9	8.09
	17	.455	.0745	.0160	18.56	21 58.8	.2740	6 24.7	8.11
	18	+2.462	−0.0726	+0.0157	18.60	21 59.0	1.2739	6 20.4	+8.12
	19	.468	.0707	.0154	18.63	21 59.3	.2738	6 16.1	8.13
	20	.475	.0688	.0152	18.67	21 59.6	.2737	6 11.9	8.14
	21	.482	.0670	.0151	18.71	21 59.8	.2737	6 7.6	8.15
	22	.488	.0651	.0150	18.75	22 0.1	.2736	6 3.3	8.15
	23	.495	.0633	.0150	18.78	22 0.4	.2736	5 59.1	8.15
	24	.501	.0615	.0150	18.82	22 0.7	.2736	5 54.8	8.15
	25	.508	.0597	.0151	18.86	22 1.0	.2737	5 50.5	8.14
	26	.515	.0579	.0152	18.89	22 1.3	.2737	5 46.2	8.14
	27	.521	.0561	.0154	18.93	22 1.6	.2738	5 41.9	8.13
	28	+2.528	−0.0543	+0.0157	18.96	22 1.9	1.2739	5 37.6	+8.12
	29	.535	.0526	.0160	19.00	22 2.2	.2741	5 33.4	8.10
	30	.541	.0508	.0164	19.03	22 2.6	.2742	5 29.1	8.09
Oktbr.	1	.548	.0491	.0168	19.07	22 2.9	.2744	5 24.8	8.07
	2	.555	.0473	.0173	19.10	22 3.3	.2746	5 20.5	8.05
	3	.562	.0456	.0179	19.14	22 3.6	.2749	5 16.3	8.02
	4	.568	.0438	.0185	19.17	22 4.0	.2751	5 12.0	8.00
	5	.575	.0421	.0192	19.21	22 4.3	.2754	5 7.7	7.97
	6	.582	.0404	.0199	19.24	22 4.7	.2757	5 3.5	7.94
	7	.589	.0387	.0206	19.27	22 5.1	.2760	4 59.2	7.90
	8	+2.596	−0.0370	+0.0214	19.31	22 5.4	1.2763	4 54.9	+7.87
	9	.603	.0353	.0222	19.34	22 5.8	.2767	4 50.7	7.83
	10	.610	.0335	.0231	19.38	22 6.2	.2771	4 46.4	7.79
	11	.618	.0318	.0240	19.41	22 6.6	.2775	4 42.2	7.75
	12	.625	.0301	.0250	19.45	22 7.0	.2779	4 37.9	7.71
	13	.632	.0284	.0260	19.48	22 7.5	.2783	4 33.7	7.66
	14	.639	.0266	.0271	19.52	22 7.9	.2788	4 29.5	7.61
	15	.647	.0249	.0283	19.55	22 8.3	.2793	4 25.3	7.56
	16	.654	.0232	.0295	19.59	22 8.7	.2798	4 21.0	7.50
	17	.662	.0214	.0307	19.62	22 9.2	.2803	4 16.8	7.45
	18	+2.669	−0.0196	+0.0319	19.66	22 9.6	1.2808	4 12.6	+7.39
	19	.677	.0178	.0332	19.70	22 10.0	.2813	4 8.5	7.33
	20	.685	.0160	.0345	19.73	22 10.5	.2819	4 4.3	7.27
	21	.692	.0141	.0358	19.77	22 11.0	.2824	4 0.1	7.20
	22	.700	.0122	.0371	19.81	22 11.4	.2830	3 55.9	7.13
	23	.708	.0103	.0385	19.85	22 11.9	.2836	3 51.8	7.06
	24	.716	.0084	.0399	19.88	22 12.4	.2842	3 47.6	6.99
	25	.725	.0064	.0413	19.92	22 12.9	.2848	3 43.5	6.92
	26	.733	.0045	.0428	19.96	22 13.3	.2854	3 39.3	6.84
	27	.741	.0025	.0443	20.00	22 13.8	.2860	3 35.2	6.76

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	28	+2.750	−0.0005	+0.0458	20.04	22h14m3	1.2866	3h31m1	+6.68
	29	.758	+0.0015	.0473	20.08	22 14.8	.2873	3 27.0	6.60
	30	.767	.0035	.0488	20.12	22 15.3	.2879	3 22.9	6.52
	31	.775	.0056	.0504	20.16	22 15.8	.2885	3 18.8	6.43
Novbr.	1	.784	.0077	.0520	20.21	22 16.3	.2892	3 14.8	6.34
	2	.793	.0098	.0536	20.25	22 16.8	.2898	3 10.7	6.25
	3	.802	.0120	.0552	20.29	22 17.3	.2905	3 6.6	6.16
	4	.811	.0142	.0568	20.34	22 17.8	.2912	3 2.6	6.07
	5	.820	.0164	.0584	20.38	22 18.3	.2918	2 58.5	5.97
	6	.830	.0187	.0600	20.43	22 18.8	.2925	2 54.5	5.87
	7	+2.839	+0.0210	+0.0616	20.47	22 19.4	1.2931	2 50.5	+5.77
	8	.848	.0234	.0632	20.52	22 19.9	.2938	2 46.5	5.67
	9	.858	.0257	.0648	20.57	22 20.4	.2944	2 42.5	5.57
	10	.868	.0281	.0664	20.61	22 20.9	.2951	2 38.5	5.46
	11	.877	.0305	.0680	20.66	22 21.4	.2957	2 34.6	5.36
	12	.887	.0330	.0695	20.71	22 21.9	.2964	2 30.6	5.25
	13	.897	.0355	.0711	20.76	22 22.4	.2970	2 26.7	5.14
	14	.907	.0380	.0726	20.81	22 22.9	.2976	2 22.7	5.02
	15	.917	.0405	.0741	20.86	22 23.5	.2982	2 18.8	4.91
	16	.927	.0431	.0756	20.92	22 24.0	.2988	2 14.9	4.79
	17	+2.938	+0.0457	+0.0771	20.97	22 24.5	1.2994	2 11.0	+4.68
	18	.948	.0484	.0786	21.02	22 25.0	.3000	2 7.1	4.56
	19	.958	.0511	.0801	21.08	22 25.5	.3006	2 3.2	4.44
	20	.969	.0539	.0815	21.13	22 26.0	.3012	1 59.3	4.32
	21	.980	.0567	.0829	21.19	22 26.5	.3018	1 55.4	4.20
	22	2.991	.0595	.0843	21.25	22 27.0	.3023	1 51.5	4.07
	23	3.002	.0624	.0857	21.30	22 27.5	.3029	1 47.7	3.95
	24	.013	.0653	.0870	21.36	22 28.0	.3034	1 43.8	3.82
	25	.024	.0682	.0883	21.42	22 28.5	.3039	1 40.0	3.69
	26	.035	.0712	.0896	21.48	22 28.9	.3044	1 36.2	3.56
	27	+3.046	+0.0742	+0.0908	21.54	22 29.4	1.3049	1 32.3	+3.43
	28	.057	.0773	.0920	21.60	22 29.9	.3054	1 28.5	3.30
	29	.068	.0804	.0931	21.66	22 30.4	.3058	1 24.7	3.17
	30	.080	.0835	.0942	21.73	22 30.8	.3063	1 20.9	3.03
Dezbr.	1	.091	.0867	.0953	21.79	22 31.3	.3067	1 17.1	2.90
	2	.103	.0899	.0963	21.85	22 31.7	.3071	1 13.3	2.77
	3	.114	.0931	.0973	21.92	22 32.2	.3075	1 9.5	2.63
	4	.126	.0964	.0982	21.98	22 32.6	.3079	1 5.7	2.49
	5	.138	.0997	.0991	22.05	22 33.0	.3082	1 1.9	2.36
	6	.150	.1030	.0999	22.12	22 33.4	.3085	0 58.1	2.22
	7	+3.161	+0.1063	+0.1007	22.18	22 33.9	1.3088	0 54.4	+2.08
	8	.173	.1097	.1014	22.25	22 34.3	.3091	0 50.6	1.94
	9	.185	.1131	.1021	22.32	22 34.7	.3094	0 46.8	1.79
	10	.197	.1166	.1028	22.39	22 35.1	.3097	0 43.1	1.65
	11	.209	.1200	.1034	22.46	22 35.4	.3099	0 39.3	1.51
	12	.221	.1235	.1040	22.53	22 35.8	.3101	0 35.6	1.37
	13	.233	.1270	.1045	22.60	22 36.2	.3103	0 31.8	1.23
	14	.245	.1305	.1049	22.67	22 36.6	.3105	0 28.1	1.09
	15	.257	.1340	.1053	22.74	22 36.9	.3107	0 24.3	0.94
	16	.270	.1376	.1056	22.81	22 37.3	.3108	0 20.6	0.80

1839

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	17	$+3^s.282$	+0.1412	+0.1059	22".88	$22^h37^m.6$	1.3109	$0^h16^m.9$	+0".66
	18	.294	.1448	.1062	22.96	22 37.9	.3110	0 13.1	0.51
	19	.306	.1484	.1064	23.03	22 38.3	.3111	0 9.4	0.36
	20	.319	.1521	.1065	23.10	22 38.6	.3111	0 5.6	0.22
	21	.331	.1558	.1065	23.18	22 38.9	.3111	0 1.9	+0.07
	22	.343	.1595	.1065	23.25	22 39.2	.3111	23 58.2	−0.07
	23	.355	.1632	.1064	23.33	22 39.5	.3111	23 54.4	0.22
	24	.368	.1669	.1063	23.40	22 39.7	.3111	23 50.7	0.36
	25	.380	.1706	.1062	23.47	22 40.0	.3110	23 46.9	0.51
	26	.392	.1744	.1060	23.55	22 40.3	.3109	23 43.2	0.65
	27	+3.404	+0.1781	+0.1057	23.62	22 40.5	1.3108	23 39.4	−0.79
	28	.416	.1819	.1054	23.70	22 40.8	.3107	23 35.7	0.94
	29	.429	.1856	.1050	23.77	22 41.0	.3105	23 31.9	1.08
	30	.441	.1894	.1046	23.85	22 41.3	.3104	23 28.2	1.22
	31	.453	.1932	.1042	23.92	22 41.5	.3102	23 24.4	1.37

1840

Januar	1	$+0^s.394$	−0.5792	+0.1035	8".44	$19^h10^m.7$	1.3099	$23^h20^m.7$	−1".51
	2	.406	.5777	.1029	8.47	19 12.7	.3097	23 16.9	1.65
	3	.418	.5762	.1022	8.50	19 14.7	.3094	23 13.2	1.79
	4	.429	.5747	.1015	8.53	19 16.6	.3092	23 9.4	1.93
	5	.441	.5731	.1008	8.56	19 18.5	.3089	23 5.6	2.07
	6	.453	.5715	.1000	8.59	19 20.4	.3086	23 1.8	2.21
	7	.465	.5698	.0991	8.63	19 22.2	.3082	22 58.0	2.35
	8	.477	.5681	.0982	8.66	19 24.0	.3079	22 54.2	2.49
	9	.489	.5663	.0973	8.70	19 25.8	.3075	22 50.4	2.63
	10	.500	.5645	.0963	8.73	19 27.6	.3071	22 46.6	2.77
	11	+0.512	−0.5626	+0.0953	8.77	19 29.3	1.3067	22 42.8	−2.90
	12	.523	.5607	.0942	8.81	19 31.0	.3063	22 39.0	3.04
	13	.534	.5587	.0931	8.85	19 32.7	.3058	22 35.2	3.17
	14	.546	.5567	.0919	8.89	19 34.3	.3054	22 31.3	3.30
	15	.557	.5546	.0907	8.93	19 35.9	.3049	22 27.5	3.44
	16	.568	.5526	.0895	8.97	19 37.5	.3044	22 23.7	3.57
	17	.580	.5505	.0882	9.01	19 39.0	.3039	22 19.8	3.70
	18	.591	.5484	.0869	9.05	19 40.6	.3034	22 15.9	3.83
	19	.602	.5462	.0856	9.10	19 42.1	.3029	22 12.0	3.95
	20	.613	.5441	.0843	9.14	19 43.5	.3023	22 8.2	4.08
	21	+0.623	−0.5419	+0.0829	9.18	19 44.9	1.3018	22 4.3	−4.20
	22	.634	.5397	.0815	9.23	19 46.3	.3012	22 0.4	4.33
	23	.644	.5375	.0800	9.27	19 47.7	.3006	21 56.5	4.45
	24	.655	.5353	.0785	9.32	19 49.0	.3000	21 52.6	4.57
	25	.665	.5331	.0770	9.36	19 50.3	.2994	21 48.6	4.69
	26	.676	.5308	.0755	9.41	19 51.6	.2988	21 44.7	4.81
	27	.686	.5285	.0740	9.45	19 52.8	.2982	21 40.7	4.92
	28	.696	.5262	.0725	9.50	19 54.1	.2976	21 36.8	5.04
	29	.706	.5239	.0709	9.55	19 55.3	.2969	21 32.8	5.15
	30	.716	.5216	.0693	9.59	19 56.4	.2963	21 28.8	5.26

1840

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 31	$+0^s.726$	−0.5193	+0.0677	9″.64	$19^h 57^m.6$	1.2956	$21^h 24^m.8$	−5″.37
Februar 1	.736	.5170	.0661	9.68	19 58.7	.2950	21 20.8	5.48
2	.745	.5148	.0645	9.73	19 59.8	.2943	21 16.8	5.59
3	.755	.5125	.0628	9.77	20 0.9	.2937	21 12.8	5.69
4	.764	.5103	.0612	9.82	20 1.9	.2930	21 8.7	5.79
5	.774	.5080	.0596	9.86	20 2.9	.2923	21 4.7	5.89
6	.783	.5058	.0580	9.91	20 3.9	.2917	21 0.6	5.99
7	.792	.5035	.0564	9.95	20 4.9	.2910	20 56.6	6.09
8	.801	.5013	.0548	10.00	20 5.9	.2903	20 52.5	6.18
9	.810	.4991	.0532	10.04	20 6.8	.2897	20 48.4	6.27
10	+0.819	−0.4969	+0.0516	10.09	20 7.8	1.2890	20 44.3	−6.36
11	.828	.4947	.0500	10.13	20 8.7	2884	20 40.2	6.45
12	.836	.4926	.0485	10.17	20 9.5	.2877	20 36.1	6.54
13	.845	.4905	.0470	10.22	20 10.4	.2871	20 31.9	6.62
14	.853	.4884	.0455	10.26	20 11.3	.2865	20 27.8	6.71
15	.862	.4863	.0439	10.30	20 12.1	.2858	20 23.6	6.79
16	.870	.4842	.0424	10.34	20 12.9	.2852	20 19.5	6.86
17	.878	.4821	.0409	10.39	20 13.7	.2846	20 15.3	6.94
18	.886	.4800	.0395	10.43	20 14.5	.2840	20 11.1	7.01
19	.894	.4779	.0381	10.47	20 15.3	.2834	20 6.9	7.09
20	+0.902	−0.4759	+0.0367	10.51	20 16.1	1.2828	20 2.7	−7.16
21	.910	.4739	.0353	10.55	20 16.9	.2823	19 58.5	7.22
22	.918	.4720	.0340	10.59	20 17.6	.2817	19 54.3	7.29
23	.926	.4701	.0327	10.62	20 18.4	.2811	19 50.0	7.35
24	.933	.4683	.0314	10.66	20 19.1	.2806	19 45.8	7.41
25	.941	.4664	.0301	10.70	20 19.9	.2801	19 41.5	7.47
26	.948	.4646	.0289	10.74	20 20.6	.2796	19 37.3	7.53
27	.956	.4628	.0278	10.77	20 21.3	.2791	19 33.0	7.58
28	.963	.4610	.0267	10.81	20 22.0	.2786	19 28.7	7.63
29	.970	.4592	.0256	10.84	20 22.7	.2781	19 24.5	7.68
März 1	+0.977	−0.4575	+0.0246	10.88	20 23.4	1.2777	19 20.2	−7.73
2	.985	.4558	.0237	10.91	20 24.1	.2773	19 15.9	7.77
3	.992	.4541	.0228	10.95	20 24.8	.2769	19 11.6	7.81
4	0.999	.4524	.0219	10.98	20 25.5	.2766	19 7.3	7.85
5	1.006	.4508	.0211	11.01	20 26.1	.2762	19 3.0	7 89
6	.013	.4492	.0203	11.04	20 26.8	.2759	18 58.7	7.92
7	.019	.4476	.0196	11.08	20 27.5	.2756	18 54.4	7.95
8	.026	.4461	.0189	11.11	20 28.2	.2753	18 50.0	7.98
9	.033	.4446	.0182	11.14	20 28.9	.2750	18 45.7	8.01
10	.040	.4431	.0176	11.17	20 29.6	.2748	18 41.4	8.04
11	+1.047	−0.4417	+0.0171	11.19	20 30.3	1.2745	18 37.1	−8.06
12	.053	.4403	.0166	11.22	20 30.9	.2743	18 32.7	8.08
13	.060	.4389	.0162	11.25	20 31.6	.2742	18 28.4	8.10
14	.067	.4375	.0159	11.28	20 32.3	.2740	18 24.1	8.11
15	.073	.4361	.0156	11.31	20 33.0	.2739	18 19.7	8.12
16	.080	.4348	.0154	11.33	20 33.7	.2738	18 15.4	8.13
17	.087	.4335	.0152	11.36	20 34.4	.2737	18 11.1	8.14
18	.093	.4322	.0150	11.38	20 35.1	.2737	18 6.7	8.15
19	.100	.4310	.0149	11.41	20 35.8	.2736	18 2.4	8.15
20	.107	.4298	.0149	11.43	20 36.5	.2736	17 58.1	8.15

1840

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	21	+1.s113	−0.4286	+0.0150	11.″46	20h37.m2	1.2737	17h53.m8	−8.″15
	22	.120	.4274	.0151	11.48	20 38.0	.2737	17 49.5	8.14
	23	.126	.4262	.0153	11.50	20 38.7	.2738	17 45.1	8.13
	24	.133	.4250	.0156	11.53	20 39.4	.2739	17 40.8	8.12
	25	.140	.4239	.0159	11.55	20 40.2	.2740	17 36.5	8.11
	26	.146	.4228	.0162	11.57	20 40.9	.2742	17 32.2	8.10
	27	.153	.4217	.0166	11.60	20 41.7	.2743	17 27.9	8.08
	28	.160	.4207	.0170	11.62	20 42.4	.2745	17 23.6	8.06
	29	.166	.4196	.0175	11.64	20 43.2	.2747	17 19.3	8.04
	30	.173	.4185	.0180	11.66	20 44.0	.2749	17 15.1	8.02
	31	+1.180	−0.4174	+0.0186	11.68	20 44.8	1.2752	17 10.8	−7.99
April	1	.187	.4163	.0192	11.70	20 45.6	.2754	17 6.6	7.96
	2	.194	.4153	.0199	11.73	20 46.4	.2757	17 2.3	7.93
	3	.200	.4143	.0207	11.75	20 47.2	.2761	16 58.1	7.90
	4	.207	.4133	.0216	11.77	20 48.0	.2764	16 53.8	7.86
	5	.214	.4122	.0225	11.79	20 48.8	.2768	16 49.6	7.83
	6	.221	.4112	.0234	11.81	20 49.7	.2772	16 45.4	7.79
	7	.228	.4101	.0243	11.83	20 50.5	.2776	16 41.2	7.74
	8	.235	.4091	.0253	11.85	20 51.4	.2780	16 37.0	7.70
	9	.243	.4080	.0263	11.87	20 52.3	.2784	16 32.8	7.65
	10	+1.250	−0.4070	+0.0274	11.89	20 53.2	1.2789	16 28.6	−7.60
	11	.257	.4060	.0285	11.91	20 54.0	.2794	16 24.4	7.55
	12	.264	.4050	.0296	11.93	20 54.9	.2798	16 20.3	7.49
	13	.272	.4040	.0308	11.95	20 55.8	.2803	16 16.1	7.44
	14	.279	.4029	.0320	11.97	20 56.7	.2808	16 12.0	7.38
	15	.287	.4018	.0332	11.99	20 57.6	.2814	16 7.9	7.32
	16	.294	.4007	.0345	12.02	20 58.6	.2819	16 3.8	7.26
	17	.302	.3996	.0358	12.04	20 59.5	.2824	15 59.7	7.20
	18	.310	.3985	.0371	12.06	21 0.4	.2830	15 55.6	7.13
	19	.318	.3974	.0385	12.08	21 1.4	.2835	15 51.5	7.06
	20	+1.326	−0.3962	+0.0399	12.11	21 2.4	1.2841	15 47.5	−6.99
	21	.334	.3951	.0413	12.13	21 3.3	.2847	15 43.5	6.92
	22	.342	.3939	.0427	12.15	21 4.3	.2853	15 39.4	6.85
	23	.350	.3927	.0441	12.18	21 5.3	.2859	15 35.4	6.77
	24	.358	.3915	.0456	12.20	21 6.3	.2865	15 31.4	6.69
	25	.367	.3902	.0471	12.23	21 7.2	.2872	15 27.4	6.61
	26	.375	.3889	.0486	12.25	21 8.2	.2878	15 23.4	6.53
	27	.384	.3876	.0501	12.28	21 9.2	.2884	15 19.5	6.45
	28	.392	.3863	.0517	12.31	21 10.2	.2890	15 15.5	6.36
	29	.401	.3849	.0532	12.33	21 11.3	.2897	15 11.6	6.27
	30	+1.409	−0.3835	+0.0548	12.36	21 12.3	1.2903	15 7.7	−6.18
Mai	1	.418	.3821	.0564	12.39	21 13.3	.2910	15 3.8	6.09
	2	.427	.3807	.0579	12.42	21 14.3	.2916	14 59.9	6.00
	3	.436	.3792	.0594	12.45	21 15.3	.2922	14 56.0	5.91
	4	.445	.3777	.0609	12.48	21 16.3	.2928	14 52.1	5.81
	5	.454	.3762	.0625	12.51	21 17.3	.2935	14 48.3	5.71
	6	.464	.3746	.0640	12.54	21 18.4	.2941	14 44.4	5.62
	7	.473	.3730	.0655	12.57	21 19.4	.2947	14 40.6	5.52
	8	.482	.3714	.0670	12.60	21 20.4	.2953	14 36.8	5.41
	9	.492	.3697	.0685	12.64	21 21.5	.2960	14 33.0	5.31

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	10	+1.ˢ502	−0.3680	+0.0700	12.″67	$21^h22^m.5$	1.2966	$14^h29^m.2$	−5.″21
	11	.511	.3663	.0715	12.71	21 23.5	.2972	14 25.4	5.10
	12	.521	.3645	.0730	12.74	21 24.6	.2978	14 21.6	4.99
	13	.531	.3627	.0745	12.78	21 25.6	.2984	14 17.9	4.88
	14	.541	.3608	.0759	12.82	21 26.6	.2989	14 14.1	4.77
	15	.551	.3589	.0773	12.86	21 27.7	.2995	14 10.4	4.66
	16	.561	.3569	.0787	12.89	21 28.7	.3001	14 6.7	4.54
	17	.571	.3549	.0801	12.93	21 29.7	.3006	14 3.0	4.43
	18	.581	.3529	.0814	12.97	21 30.7	.3012	13 59.3	4.32
	19	.591	.3508	.0828	13.02	21 31.7	.3017	13 55.6	4.20
	20	+1.602	−0.3487	+0.0841	13.06	21 32.7	1.3022	13 51.9	−4.08
	21	.612	.3466	.0854	13.10	21 33.7	.3028	13 48.2	3.96
	22	.623	.3444	.0867	13.15	21 34.6	.3033	13 44.6	3.84
	23	.634	.3422	.0879	13.19	21 35.6	.3038	13 40.9	3.72
	24	.644	.3399	.0891	13.24	21 36.6	.3042	13 37.3	3.60
	25	.655	.3376	.0903	13.28	21 37.6	.3047	13 33.7	3.48
	26	.666	.3353	.0914	13.33	21 38.5	.3052	13 30.1	3.36
	27	.677	.3329	.0925	13.38	21 39.5	.3056	13 26.5	3.23
	28	.688	.3305	.0936	13.42	21 40.4	.3060	13 22.9	3.11
	29	.699	.3280	.0947	13.47	21 41.3	.3065	13 19.3	2.98
	30	+1.710	−0.3255	+0.0957	13.52	21 42.3	1.3069	13 15.7	−2.85
	31	.721	.3230	.0967	13.58	21 43.2	.3073	13 12.1	2.72
Juni	1	.732	.3204	.0976	13.63	21 44.1	.3076	13 8.5	2.59
	2	.743	.3178	.0985	13.68	21 45.0	.3080	13 4.9	2.47
	3	.754	.3152	.0993	13.73	21 45.8	.3083	13 1.4	2.34
	4	.766	.3125	.1001	13.79	21 46.7	.3086	12 57.8	2.20
	5	.777	.3098	.1008	13.84	21 47.6	.3089	12 54.3	2.07
	6	.789	.3070	.1015	13.90	21 48.4	.3092	12 50.7	1.94
	7	.800	.3042	.1022	13.95	21 49.3	.3094	12 47.2	1.81
	8	.812	.3014	.1028	14.01	21 50.1	.3097	12 43.6	1.68
	9	+1.823	−0.2985	+0.1034	14.07	21 50.9	1.3099	12 40.1	−1.54
	10	.835	.2956	.1039	14.12	21 51.7	.3101	12 36.6	1.41
	11	.846	.2927	.1044	14.18	21 52.5	.3103	12 33.1	1.28
	12	.858	.2897	.1048	14.24	21 53.2	.3105	12 29.6	1.14
	13	.869	.2867	.1052	14.30	21 54.0	.3106	12 26.1	1.01
	14	.881	.2837	.1055	14.36	21 54.7	.3107	12 22.5	0.87
	15	.892	.2807	.1058	14.42	21 55.5	.3108	12 19.0	0.74
	16	.904	.2776	.1060	14.49	21 56.2	.3109	12 15.5	0.60
	17	.916	.2745	.1062	14.55	21 56.9	.3110	12 12.0	0.47
	18	.927	.2714	.1063	14.61	21 57.6	.3111	12 8.5	0.33
	19	+1.939	−0.2683	+0.1064	14.67	21 58.2	1.3111	12 5.0	−0.19
	20	.951	.2651	.1065	14.74	21 58.9	.3111	12 1.5	−0.06
	21	.962	.2618	.1065	14.80	21 59.6	.3111	11 58.0	+0.08
	22	.974	.2586	.1064	14.87	22 0.2	.3111	11 54.6	0.21
	23	.986	.2554	.1063	14.93	22 0.8	.3111	11 51.1	0.35
	24	1.998	.2522	.1062	15.00	22 1.4	.3110	11 47.6	0.48
	25	2.009	.2489	.1060	15.06	22 2.0	.3109	11 44.0	0.62
	26	.021	.2457	.1057	15.13	22 2.6	.3108	11 40.5	0.75
	27	.032	.2424	.1054	15.19	22 3.2	.3107	11 37.0	0.89
	28	.044	.2391	.1051	15.26	22 3.7	.3106	11 33.5	1.02

1840

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	29	+2s.056	−0.2358	+0.1047	15″.32	22h 4m.3	1.3104	11h30m.0	+1″.16
	30	.067	.2325	.1043	15.39	22 4.8	.3103	11 26.5	1.29
Juli	1	.079	.2291	.1039	15.46	22 5.3	.3101	11 23.0	1.42
	2	.090	.2258	.1034	15.53	22 5.8	.3099	11 19.5	1.56
	3	.102	.2224	.1028	15.59	22 6.3	.3097	11 16.0	1.69
	4	.113	.2190	.1022	15.66	22 6.8	.3094	11 12.4	1.83
	5	.125	.2156	.1015	15.73	22 7.2	.3091	11 8.9	1.96
	6	.136	.2123	.1008	15.80	22 7.7	.3088	11 5.4	2.09
	7	.147	.2089	.1000	15.86	22 8.1	.3085	11 1.8	2.22
	8	.159	.2055	.0992	15.93	22 8.5	.3082	10 58.3	2.35
	9	+2.170	−0.2021	+0.0984	16.00	22 8.9	1.3079	10 54.7	+2.48
	10	.181	.1987	.0975	16.07	22 9.3	.3076	10 51.2	2.61
	11	.192	.1954	.0966	16.13	22 9.7	.3072	10 47.6	2.73
	12	.203	.1920	.0956	16.20	22 10.1	.3068	10 44.1	2.86
	13	.214	.1887	.0946	16.27	22 10.5	.3064	10 40.5	2.99
	14	.225	.1853	.0936	16.34	22 10.8	.3060	10 36.9	3.11
	15	.236	.1820	.0925	16.40	22 11.2	.3056	10 33.3	3.24
	16	.247	.1786	.0914	16.47	22 11.5	.3052	10 29.7	3.36
	17	.257	.1753	.0903	16.54	22 11.8	.3047	10 26.1	3.49
	18	.268	.1720	.0892	16.60	22 12.2	.3043	10 22.5	3.61
	19	+2.279	−0.1687	+0.0880	16.67	22 12.5	1.3038	10 18.9	+3.73
	20	.289	.1654	.0868	16.74	22 12.7	.3033	10 15.3	3.85
	21	.300	.1621	.0855	16.80	22 13.0	.3028	10 11.6	3.97
	22	.310	.1588	.0842	16.87	22 13.3	.3023	10 8.0	4.09
	23	.321	.1555	.0829	16.93	22 13.6	.3018	10 4.3	4.20
	24	.331	.1522	.0816	17.00	22 13.8	.3012	10 0.7	4.32
	25	.341	.1490	.0802	17.06	22 14.1	.3007	9 57.0	4.44
	26	.351	.1458	.0788	17.13	22 14.3	.3001	9 53.3	4.55
	27	.361	.1426	.0774	17.19	22 14.6	.2995	9 49.6	4.66
	28	.371	.1394	.0760	17.26	22 14.8	.2990	9 45.9	4.77
	29	+2.381	−0.1362	+0.0746	17.32	22 15.0	1.2984	9 42.2	+4.88
	30	.391	.1330	.0732	17.38	22 15.2	.2978	9 38.5	4.99
	31	.401	.1299	.0717	17.45	22 15.5	.2972	9 34.7	5.09
August	1	.410	.1268	.0702	17.51	22 15.7	.2966	9 31.0	5.20
	2	.420	.1237	.0687	17.57	22 15.8	.2960	9 27.2	5.31
	3	.429	.1206	.0672	17.63	22 16.0	.2954	9 23.4	5.41
	4	.439	.1176	.0657	17.69	22 16.2	.2948	9 19.7	5.51
	5	.448	.1146	.0642	17.75	22 16.4	.2942	9 15.9	5.61
	6	.457	.1116	.0627	17.81	22 16.6	.2936	9 12.1	5.71
	7	.466	.1086	.0612	17.87	22 16.7	.2929	9 8.2	5.80
	8	+2.475	−0.1057	+0.0596	17.93	22 16.9	1.2923	9 4.4	+5.90
	9	.484	.1027	.0580	17.99	22 17.1	.2917	9 0.6	5.99
	10	.493	.0998	.0565	18.05	22 17.2	.2910	8 56.7	6.08
	11	.502	.0969	.0549	18.11	22 17.4	.2904	8 52.8	6.17
	12	.510	.0941	.0534	18.16	22 17.5	.2898	8 48.9	6.26
	13	.519	.0913	.0519	18.22	22 17.7	.2892	8 45.0	6.35
	14	.527	.0885	.0504	18.28	22 17.8	.2885	8 41.1	6.43
	15	.536	.0857	.0489	18.33	22 18.0	.2879	8 37.2	6.52
	16	.544	.0830	.0474	18.39	22 18.1	.2873	8 33.3	6.60
	17	.552	.0803	.0459	18.44	22 18.3	.2867	8 29.3	6.68

1840

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
August 18	+2.561	−0.0776	+0.0444	18″.50	22h18m.4	1.2861	8h25m.4	+6″.75
19	.569	.0749	.0430	18.55	22 18.6	.2855	8 21.4	6.83
20	.577	.0723	.0416	18.60	22 18.7	.2849	8 17.4	6.90
21	.585	.0697	.0402	18.65	22 18.8	.2843	8 13.4	6.98
22	.593	.0671	.0389	18.71	22 19.0	.2837	8 9.4	7.05
23	.601	.0646	.0375	18.76	22 19.1	.2832	8 5.4	7.11
24	.608	.0621	.0362	18.81	22 19.3	.2826	8 1.3	7.18
25	.616	.0597	.0349	18.85	22 19.4	.2821	7 57.3	7.25
26	.623	.0573	.0336	18.90	22 19.5	.2815	7 53.2	7.31
27	.631	.0549	.0323	18.95	22 19.7	.2810	7 49.1	7.37
28	+2.638	−0.0525	+0.0311	19.00	22 19.8	1.2805	7 45.1	+7.42
29	.646	.0501	.0299	19.05	22 20.0	.2800	7 41.0	7.48
30	.653	.0477	.0288	19.09	22 20.1	.2795	7 36.9	7.53
31	.660	.0454	.0277	19.14	22 20.3	.2791	7 32.8	7.58
Septbr. 1	.668	.0431	.0267	19.19	22 20.4	.2786	7 28.6	7.63
2	.675	.0408	.0257	19.23	22 20.6	.2782	7 24.5	7.68
3	.682	.0386	.0247	19.28	22 20.7	.2777	7 20.3	7.72
4	.689	.0364	.0237	19.32	22 20.9	.2773	7 16.2	7.77
5	.696	.0342	.0228	19.37	22 21.1	.2770	7 12.0	7.81
6	.703	.0321	.0219	19.41	22 21.2	.2766	7 7.9	7.84
7	+2.710	−0.0300	+0.0211	19.45	22 21.4	1.2762	7 3.7	+7.88
8	.716	.0279	.0203	19.49	22 21.6	.2759	6 59.5	7.91
9	.723	.0258	.0196	19.54	22 21.8	.2756	6 55.3	7.95
10	.730	.0237	.0190	19.58	22 21.9	.2753	6 51.1	7.98
11	.737	.0217	.0184	19.62	22 22.1	.2750	6 46.9	8.01
12	.743	.0197	.0178	19.66	22 22.3	.2748	6 42.7	8.03
13	.750	.0177	.0173	19.70	22 22.5	.2746	6 38.4	8.05
14	.757	.0157	.0169	19.74	22 22.7	.2744	6 34.2	8.07
15	.763	.0137	.0165	19.78	22 22.9	.2742	6 30.0	8.09
16	.770	.0117	.0161	19.82	22 23.1	.2741	6 25.7	8.11
17	+2.776	−0.0098	+0.0158	19.85	22 23.3	1.2740	6 21.4	+8.12
18	.783	.0079	.0156	19.89	22 23.6	.2739	6 17.2	8.13
19	.790	.0060	.0154	19.93	22 23.8	.2738	6 12.9	8.14
20	.796	.0041	.0152	19.97	22 24.0	.2737	6 8.6	8.14
21	.803	.0023	.0151	20.01	22 24.3	.2737	6 4.4	8.15
22	.809	− .0004	.0150	20.04	22 24.5	.2736	6 0.1	8.15
23	.816	+ .0014	.0150	20.08	22 24.8	.2736	5 55.8	8.15
24	.822	.0033	.0151	20.12	22 25.0	.2737	5 51.5	8.14
25	.829	.0051	.0152	20.15	22 25.3	.2737	5 47.3	8.14
26	.835	.0069	.0154	20.19	22 25.5	.2738	5 43.0	8.13
27	+2.842	+0.0087	+0.0156	20.23	22 25.8	1.2739	5 38.7	+8.12
28	.848	.0105	.0159	20.26	22 26.1	.2740	5 34.4	8.11
29	.855	.0123	.0163	20.30	22 26.4	.2742	5 30.1	8.09
30	.861	.0141	.0168	20.33	22 26.7	.2744	5 25.8	8.07
Oktbr. 1	.868	.0159	.0173	20.37	22 27.0	.2746	5 21.6	8.05
2	.875	.0176	.0178	20.41	22 27.3	.2748	5 17.3	8.03
3	.881	.0194	.0184	20.44	22 27.6	.2751	5 13.0	8.00
4	.888	.0212	.0190	20.48	22 27.9	.2753	5 8.8	7.97
5	.895	.0230	.0197	20.51	22 28.2	.2756	5 4.5	7.94
6	.902	.0248	.0204	20.55	22 28.6	.2759	5 0.2	7.91

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	7	+2.908	+0.0266	+0.0212	20.58	22h28m9	1.2763	4h56m0	+7.88
	8	.915	.0284	.0220	20.62	22 29.2	.2766	4 51.7	7.84
	9	.922	.0302	.0229	20.66	22 29.6	.2770	4 47.5	7.80
	10	.929	.0320	.0238	20.69	22 30.0	.2774	4 43.2	7.76
	11	.936	.0338	.0248	20.73	22 30.3	.2778	4 39.0	7.72
	12	.943	.0356	.0258	20.76	22 30.7	.2782	4 34.7	7.67
	13	.951	.0374	.0269	20.80	22 31.1	.2787	4 30.5	7.62
	14	.958	.0392	.0280	20.84	22 31.4	.2791	4 26.3	7.57
	15	.965	.0411	.0291	20.88	22 31.8	.2796	4 22.1	7.52
	16	.973	.0430	.0303	20.91	22 32.2	.2801	4 17.9	7.46
	17	+2.980	+0.0449	+0.0315	20.95	22 32.6	1.2807	4 13.7	+7.40
	18	.988	.0469	.0328	20.99	22 33.0	.2812	4 9.5	7.34
	19	2.995	.0488	.0341	21.03	22 33.4	.2817	4 5.3	7.28
	20	3.003	0507	.0354	21.07	22 33.8	.2823	4 1.1	7.22
	21	.011	.0526	.0368	21.11	22 34.2	.2829	3 56.9	7.15
	22	.018	.0546	.0382	21.15	22 34.6	.2834	3 52.8	7.08
	23	.026	.0566	.0396	21.19	22 35.1	.2840	3 48.6	7.01
	24	.034	.0586	.0410	21.23	22 35.5	.2846	3 44.5	6.94
	25	.043	.0607	.0425	21.27	22 35.9	.2852	3 40.3	6.86
	26	.051	.0628	.0440	21.31	22 36.3	.2859	3 36.2	6.78
	27	+3.059	+0.0649	+0.0455	21.35	22 36.8	1.2865	3 32.1	+6.70
	28	.067	.0670	.0470	21.40	22 37.2	.2871	3 28.0	6.62
	29	.076	.0692	.0485	21.44	22 37.7	.2877	3 23.9	6.54
	30	.084	.0714	.0500	21.48	22 38.1	.2884	3 19.8	6.45
	31	.093	.0736	.0516	21.53	22 38.6	.2890	3 15.7	6.36
Novbr.	1	.102	.0758	.0532	21.57	22 39.0	.2897	3 11.7	6.27
	2	.110	.0781	.0548	21.62	22 39.5	.2903	3 7.6	6.18
	3	.119	.0804	.0564	21.66	22 39.9	.2910	3 3.6	6.09
	4	.128	.0828	.0580	21.71	22 40.4	.2917	2 59.5	5.99
	5	.137	.0851	.0596	21.76	22 40.8	.2923	2 55.5	5.90
	6	+3.147	+0.0875	+0.0612	21.81	22 41.3	1.2930	2 51.5	+5.80
	7	.156	.0899	.0628	21.86	22 41.7	.2936	2 47.5	5.70
	8	.165	.0924	.0644	21.91	22 42.2	.2943	2 43.5	5.59
	9	.175	.0949	.0660	21.96	22 42.6	.2949	2 39.5	5.49
	10	.184	.0975	.0676	22.01	22 43.1	.2956	2 35.5	5.38
	11	.194	.1001	.0692	22.06	22 43.5	.2962	2 31.6	5.27
	12	.204	.1027	.0707	22.11	22 44.0	.2968	2 27.6	5.16
	13	.213	.1053	.0722	22.16	22 44.4	.2975	2 23.7	5.05
	14	.223	.1080	.0737	22.22	22 44.9	.2981	2 19.8	4.94
	15	.234	.1107	.0752	22.27	22 45.3	.2987	2 15.8	4.82
	16	+3.244	+0.1135	+0.0767	22.33	22 45.8	1.2993	2 11.9	+4.70
	17	.254	.1163	.0782	22.38	22 46.2	.2999	2 8.0	4.59
	18	.264	.1191	.0796	22.44	22 46.7	.3005	2 4.1	4.47
	19	.275	.1220	.0811	22.50	22 47.1	.3010	2 0.2	4.35
	20	.285	.1249	.0825	22.56	22 47.5	.3016	1 56.3	4.22
	21	.296	.1278	.0839	22.61	22 48.0	.3022	1 52.5	4.10
	22	.307	.1308	.0853	22.67	22 48.4	.3027	1 48.6	3.98
	23	.317	.1338	.0867	22.73	22 48.8	.3033	1 44.8	3.85
	24	.328	.1369	.0880	22.80	22 49.2	.3038	1 40.9	3.72
	25	.339	.1400	.0893	22.86	22 49.7	.3043	1 37.1	3.59

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	26	$+3^s.350$	+0.1431	+0.0905	22".92	$22^h 50^m.1$	1.3048	$1^h 33^m.3$	+3".46
	27	.361	.1463	.0917	22.99	22 50.5	.3053	1 29.4	3.33
	28	.372	.1495	.0928	23.05	22 50.9	.3057	1 25.6	3.20
	29	.384	.1527	.0940	23.11	22 51.3	.3062	1 21.8	3.07
	30	.395	.1559	.0951	23.18	22 51.7	.3066	1 18.0	2.93
Dezbr.	1	.406	.1592	.0961	23.24	22 52.0	.3070	1 14.2	2.80
	2	.418	.1625	.0971	23.31	22 52.4	.3074	1 10.4	2.66
	3	.429	.1658	.0980	23.38	22 52.8	.3078	1 6.6	2.53
	4	.441	.1692	.0989	23.44	22 53.2	.3081	1 2.8	2.39
	5	.453	.1726	.0997	23.51	22 53.5	.3084	0 59.0	2.25
	6	+3.464	+0.1760	+0.1005	23.58	22 53.9	1.3088	0 55.3	+2.11
	7	.476	.1794	.1013	23.65	22 54.2	.3091	0 51.5	1.97
	8	.488	.1829	.1020	23.72	22 54.6	.3093	0 47.7	1.83
	9	.500	.1864	.1027	23.79	22 54.9	.3096	0 44.0	1.69
	10	.512	.1900	.1033	23.86	22 55.2	.3098	0 40.2	1.55
	11	.523	.1936	.1038	23.93	22 55.5	.3101	0 36.5	1.40
	12	.535	.1972	.1043	24.01	22 55.8	.3103	0 32.7	1.26
	13	.547	.2008	.1048	24.08	22 56.1	.3104	0 29.0	1.12
	14	.559	.2044	.1052	24.15	22 56.4	.3106	0 25.2	0.98
	15	.571	.2080	.1056	24.22	22 56.7	.3107	0 21.5	0.83
	16	+3.583	+0.2117	+0.1059	24.30	22 57.0	1.3109	0 17.8	+0.69
	17	.595	.2153	.1061	24.37	22 57.3	.3110	0 14.0	0.55
	18	.607	.2190	.1063	24.44	22 57.6	.3110	0 10.3	0.40
	19	.619	.2227	.1064	24.52	22 57.8	.3111	0 6.6	0.25
	20	.631	.2264	.1064	24.59	22 58.1	.3111	0 2.8	+0.11
	21	.644	.2301	.1064	24.67	22 58.3	.3111	23 59.1	−0.04
	22	.656	.2338	.1064	24.74	22 58.5	.3111	23 55.3	0.18
	23	.668	.2375	.1063	24.82	22 58.8	.3111	23 51.6	0.33
	24	.680	.2413	.1062	24.89	22 59.0	.3110	23 47.8	0.47
	25	.692	.2450	.1060	24.97	22 59.2	.3109	23 44.1	0.62
	26	+3.704	+0.2488	+0.1058	25.04	22 59.4	1.3108	23 40.3	−0.76
	27	.716	.2525	.1055	25.12	22 59.6	.3107	23 36.6	0.90
	28	.728	.2563	.1051	25.19	22 59.8	.3106	23 32.8	1.05
	29	.740	.2600	.1047	25.27	23 0.0	.3104	23 29.1	1.19
	30	.752	.2638	.1042	25.34	23 0.2	.3102	23 25.3	1.33
	31	.764	.2676	.1037	25.42	23 0.4	.3100	23 21.6	1.47

1841

Januar	1	$+0^s.705$	−0.6015	+0.1030	7".99	$20^h 20^m.1$	1.3097	$23^h 17^m.9$	−1".62
	2	.716	.5991	.1023	8.04	20 21.9	.3095	23 14.1	1.76
	3	.728	.5967	.1016	8.09	20 23.6	.3092	23 10.3	1.90
	4	.740	.5943	.1009	8.13	20 25.3	.3089	23 6.5	2.04
	5	.752	.5919	.1002	8.18	20 26.9	.3086	23 2.7	2.18
	6	.763	.5894	.0994	8.23	20 28.5	.3083	22 59.0	2.32
	7	.775	.5869	.0985	8.28	20 30.1	.3080	22 55.2	2.46
	8	.787	.5844	.0976	8.33	20 31.6	.3076	22 51.4	2.60
	9	.798	.5818	.0966	8.39	20 33.1	.3072	22 47.6	2.73
	10	.809	.5792	.0956	8.44	20 34.6	.3068	22 43.7	2.87

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	11	+0.821	−0.5766	+0.0945	8″.49	$20^h 36^m.0$	1.3064	$22^h 39^m.9$	−3″.01
	12	.832	.5739	.0934	8.54	20 37.4	.3059	22 36.1	3.14
	13	.843	.5712	.0922	8.60	20 38.8	.3055	22 32.3	3.27
	14	.854	.5685	.0910	8.65	20 40.1	.3050	22 28.4	3.40
	15	.865	.5658	.0898	8.70	20 41.4	.3045	22 24.6	3.54
	16	.876	.5631	.0885	8.76	20 42.6	.3040	22 20.7	3.67
	17	.887	.5604	.0873	8.81	20 43.8	.3035	22 16.9	3.79
	18	.898	.5577	.0860	8.87	20 45.0	.3030	22 13.0	3.92
	19	.909	.5549	.0847	8.92	20 46.2	.3025	22 9.1	4.05
	20	.920	.5522	.0833	8.98	20 47.3	.3019	22 5.2	4.17
	21	+0.930	−0.5494	+0.0819	9.03	20 48.4	1.3013	22 1.3	−4.30
	22	.940	.5467	.0804	9.09	20 49.5	.3007	21 57.4	4.42
	23	.951	.5439	.0789	9.14	20 50.5	.3001	21 53.5	4.54
	24	.961	.5412	.0774	9.20	20 51.5	.2995	21 49.6	4.66
	25	.971	.5384	.0759	9.25	20 52.5	.2989	21 45.6	4.78
	26	.981	.5357	.0744	9.31	20 53.5	.2983	21 41.7	4.90
	27	0.991	.5330	.0729	9.36	20 54.4	.2977	21 37.7	5.01
	28	1.001	.5303	.0713	9.42	20 55.3	.2971	21 33.7	5.12
	29	.011	.5276	.0697	9.47	20 56.2	.2964	21 29.8	5.24
	30	.021	.5249	.0681	9.53	20 57.1	.2958	21 25.8	5.35
	31	+1.030	−0.5222	+0.0665	9.58	20 57.9	1.2951	21 21.8	−5.45
Februar	1	.040	.5195	.0649	9.63	20 58.7	.2945	21 17.8	5 56
	2	.049	.5168	.0632	9.69	20 59.5	.2938	21 13.8	5.66
	3	.059	.5141	.0616	9.74	21 0.3	.2932	21 9.7	5.77
	4	.068	.5115	.0600	9.79	21 1.1	.2925	21 5.7	5.87
	5	.077	.5089	.0584	9.85	21 1.8	.2918	21 1.6	5.96
	6	.086	.5063	.0568	9.90	21 2.5	.2912	20 57.6	6.06
	7	.095	.5038	.0552	9.95	21 3.2	.2905	20 53.5	6.16
	8	.104	.5013	.0536	10.00	21 3.9	.2898	20 49.4	6.25
	9	.112	.4988	.0520	10.05	21 4.6	.2892	20 45.3	6.34
	10	+1.121	−0.4963	+0.0504	10.10	21 5.3	1.2885	20 41.2	−6.43
	11	.130	.4938	.0489	10.15	21 5.9	.2879	20 37.1	6.52
	12	.138	.4914	.0474	10.20	21 6.6	.2873	20 33.0	6.60
	13	.146	.4890	.0459	10.25	21 7.2	.2866	20 28.8	6.69
	14	.155	.4866	.0444	10.29	21 7.8	.2860	20 24.6	6.77
	15	.163	.4842	.0429	10.34	21 8.4	.2854	20 20.5	6.85
	16	.171	.4819	.0414	10.39	21 9.0	.2847	20 16.3	6.92
	17	.179	.4796	.0399	10.43	21 9.6	.2841	20 12.1	7.00
	18	.186	.4773	.0384	10.48	21 10.2	.2836	20 7.9	7.07
	19	.194	.4750	.0370	10.53	21 10.7	.2830	20 3.7	7.14
	20	+1.202	−0.4728	+0.0356	10.57	21 11.3	1.2824	19 59.5	−7.21
	21	.210	.4706	.0343	10.62	21 11.9	.2818	19 55.3	7.27
	22	.217	.4685	.0330	10.66	21 12.4	.2812	19 51.1	7.34
	23	.225	.4664	.0317	10.70	21 13.0	.2807	19 46.8	7.40
	24	.232	.4643	.0304	10.74	21 13.5	.2802	19 42.6	7.46
	25	.239	.4622	.0292	10.78	21 14.1	.2797	19 38.3	7.51
	26	.247	.4601	.0281	10.83	21 14.6	.2792	19 34.1	7.57
	27	.254	.4581	.0270	10.87	21 15.1	.2787	19 29.8	7.62
	28	.261	.4561	.0259	10.91	21 15.6	.2782	19 25.5	7.67
März	1	.268	.4542	.0249	10.94	21 16.2	.2778	19 21.2	7.72

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	2	+1.ˢ275	−0.4523	+0.0239	10.″98	$21^h16^m.7$	1.2774	$19^h16^m.9$	−7.″76
	3	.282	.4504	.0230	11.02	21 17.2	.2770	19 12.6	7.80
	4	.289	.4485	.0221	11.06	21 17.8	.2767	19 8.3	7.84
	5	.296	.4467	.0213	11.09	21 18.3	.2763	19 4.0	7.88
	6	.302	.4449	.0205	11.13	21 18.8	.2760	18 59.7	7.91
	7	.309	.4431	.0198	11.17	21 19.4	.2756	18 55.4	7.95
	8	.316	.4413	.0191	11.20	21 19.9	.2753	18 51.1	7.98
	9	.322	.4396	.0184	11.24	21 20.5	.2751	18 46.8	8.00
	10	.329	.4379	.0178	11.27	21 21.0	.2748	18 42.5	8.03
	11	.336	.4362	.0172	11.30	21 21.6	.2746	18 38.1	8.05
	12	+1.342	−0.4345	+0.0167	11.34	21 22.1	1.2744	18 33.8	−8.07
	13	.349	.4329	.0163	11.37	21 22.7	.2742	18 29.5	8.09
	14	.356	.4313	.0160	11.40	21 23.2	.2741	18 25.1	8.11
	15	.362	.4297	.0157	11.43	21 23.8	.2739	18 20.8	8.12
	16	.369	.4281	.0155	11.47	21 24.4	.2738	18 16.5	8.13
	17	.375	.4266	.0153	11.50	21 24.9	.2738	18 12.1	8.14
	18	.382	.4251	.0152	11.53	21 25.5	.2737	18 7.8	8.14
	19	.388	.4236	.0151	11.56	21 26.1	.2736	18 3.5	8.15
	20	.394	.4221	.0150	11.59	21 26.7	.2736	17 59.1	8.15
	21	.401	.4207	.0150	11.62	21 27.3	.2736	17 54.8	8.15
	22	+1.407	−0.4192	+0.0151	11.64	21 27.9	1.2737	17 50.5	−8.14
	23	.414	.4178	.0153	11.67	21 28.5	.2738	17 46.2	8.13
	24	.420	.4164	.0155	11.70	21 29.2	.2739	17 41.9	8.12
	25	.427	.4150	.0158	11.73	21 29.8	.2740	17 37.6	8.11
	26	.433	.4136	.0161	11.76	21 30.5	.2741	17 33.2	8.10
	27	.440	.4122	.0165	11.79	21 31.1	.2743	17 28.9	8.08
	28	.446	.4108	.0169	11.81	21 31.8	.2745	17 24.7	8.06
	29	.453	.4095	.0174	11.84	21 32.5	.2747	17 20.4	8.04
	30	.459	.4081	.0179	11.87	21 33.2	.2749	17 16.1	8.02
	31	.466	.4068	.0185	11.89	21 33.8	.2751	17 11.9	8.00
April	1	+1.472	−0.4054	+0.0191	11.92	21 34.5	1.2754	17 7.6	−7.97
	2	.479	.4041	.0198	11.95	21 35.2	.2757	17 3.3	7.94
	3	.486	.4027	.0206	11.98	21 36.0	.2760	16 59.1	7.91
	4	.492	.4014	.0214	12.00	21 36.7	.2764	16 54.8	7.87
	5	.499	.4001	.0223	12.03	21 37.4	.2767	16 50.6	7.84
	6	.506	.3987	.0232	12.06	21 38.2	.2771	16 46.4	7.80
	7	.513	.3974	.0241	12.08	21 38.9	.2775	16 42.2	7.75
	8	.520	.3960	.0251	12.11	21 39.7	.2779	16 38.0	7.71
	9	.527	.3947	.0261	12.14	21 40.4	.2783	16 33.8	7.66
	10	.534	.3933	.0271	12.17	21 41.2	.2788	16 29.6	7.61
	11	+1.541	−0.3919	+0.0282	12.19	21 42.0	1.2793	16 25.5	−7.56
	12	.548	.3905	.0293	12.22	21 42.8	.2797	16 21.3	7.51
	13	.555	.3891	.0305	12.25	21 43.6	.2802	16 17.1	7.45
	14	.563	.3877	.0317	12.28	21 44.4	.2807	16 13.0	7.39
	15	.570	.3863	.0329	12.30	21 45.2	.2812	16 8.9	7.33
	16	.578	.3849	.0342	12.33	21 46.0	.2818	16 4.8	7.27
	17	.585	.3835	.0355	12.36	21 46.9	.2823	16 0.7	7.21
	18	.593	.3820	.0368	12.39	21 47.7	.2828	15 56.6	7.15
	19	.600	.3805	.0381	12.42	21 48.6	.2834	15 52.5	7.08
	20	.608	.3789	.0395	12.45	21 49.4	.2840	15 48.5	7.01

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	21	+1.616	−0.3774	+0.0409	12″.48	21h50m.3	1.2846	15h44m.4	−6″.94
	22	.624	.3758	.0423	12.52	21 51.1	.2852	15 40.4	6.86
	23	.632	.3742	.0438	12.55	21 52.0	.2858	15 36.4	6.79
	24	.640	.3726	.0453	12.58	21 52.8	.2864	15 32.4	6.71
	25	.648	.3710	.0468	12.61	21 53.7	.2870	15 28.4	6.63
	26	.656	.3693	.0483	12.65	21 54.6	.2876	15 24.4	6.55
	27	.664	.3676	.0498	12.68	21 55.5	.2883	15 20.4	6.47
	28	.673	.3659	.0513	12.71	21 56.3	.2889	15 16.5	6.38
	29	.681	.3642	.0529	12.75	21 57.2	.2895	15 12.5	6.29
	30	.690	.3624	.0544	12.78	21 58.1	.2902	15 8.6	6.20
Mai	1	+1.698	−0.3606	+0.0560	12.82	21 59.0	1.2908	15 4.7	−6.11
	2	.707	.3587	.0575	12.86	21 59.9	.2914	15 0.8	6.02
	3	.716	.3568	.0591	12.90	22 0.7	.2921	14 56.9	5.93
	4	.725	.3549	.0606	12.93	22 1.6	.2927	14 53.1	5.83
	5	.734	.3530	.0622	12.97	22 2.5	.2933	14 49.2	5.74
	6	.743	.3510	.0637	13.01	22 3.4	.2940	14 45.4	5.64
	7	.752	.3490	.0652	13.05	22 4.3	.2946	14 41.6	5.54
	8	.761	.3470	.0667	13.09	22 5.2	.2952	14 37.7	5.44
	9	.770	.3449	.0682	13.14	22 6.1	.2958	14 33.9	5.34
	10	.780	.3428	.0697	13.18	22 7.0	.2964	14 30.1	5.23
	11	+1.789	−0.3407	+0.0712	13.22	22 7.8	1.2970	14 26.3	−5.13
	12	.799	.3385	.0726	13.26	22 8.7	.2976	14 22.6	5.02
	13	.808	.3363	.0741	13.31	22 9.6	.2982	14 18.8	4.91
	14	.818	.3340	.0755	13.35	22 10.4	.2988	14 15.0	4.80
	15	.828	.3317	.0770	13.40	22 11.3	.2994	14 11.3	4.68
	16	.838	.3293	.0784	13.45	22 12.2	.2999	14 7.6	4.57
	17	.848	.3269	.0798	13.50	22 13.0	.3005	14 3.9	4.46
	18	.858	.3245	.0812	13.54	22 13.8	.3010	14 0.2	4.35
	19	.868	.3221	.0825	13.59	22 14.7	.3016	13 56.5	4.23
	20	.878	.3196	.0838	13.64	22 15.5	.3021	13 52.8	4.11
	21	+1.888	−0.3171	+0.0851	13.69	22 16.3	1.3026	13 49.1	−3.99
	22	.899	.3146	.0864	13.74	22 17.2	.3031	13 45.5	3.87
	23	.909	.3120	.0876	13.80	22 18.0	.3036	13 41.8	3.75
	24	.920	.3094	.0888	13.85	22 18.8	.3041	13 38.2	3.63
	25	.930	.3067	.0900	13.90	22 19.6	.3046	13 34.6	3.51
	26	.941	.3040	.0912	13.96	22 20.3	.3051	13 30.9	3.39
	27	.952	.3013	.0923	14.01	22 21.1	.3055	13 27.3	3.26
	28	.962	.2985	.0934	14.07	22 21.9	.3059	13 23.7	3.14
	29	.973	.2957	.0945	14.12	22 22.6	.3064	13 20.1	3.01
	30	.984	.2928	.0955	14.18	22 23.4	.3068	13 16.5	2.88
	31	+1.995	−0.2899	+0.0965	14.24	22 24.1	1.3072	13 12.9	−2.75
Juni	1	2.006	.2870	.0974	14.30	22 24.9	.3075	13 9.4	2.63
	2	.017	.2841	.0983	14.35	22 25.6	.3079	13 5.8	2.50
	3	.028	.2812	.0991	14.41	22 26.3	.3082	13 2.2	2.37
	4	.039	.2782	.0999	14.47	22 26.9	.3085	12 58.7	2.24
	5	.050	.2752	.1006	14.53	22 27.6	.3088	12 55.1	2.11
	6	.061	.2721	.1013	14.60	22 28.3	.3091	12 51.6	1.97
	7	.073	.2690	.1020	14.66	22 29.0	.3094	12 48.0	1.84
	8	.084	.2659	.1026	14.72	22 29.6	.3096	12 44.5	1.71
	9	.095	.2627	.1032	14.78	22 30.2	.3098	12 41.0	1.58

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	10	$+2^s.106$	−0.2595	+0.1038	14".85	$22^h30^m.8$	1.3101	$12^h37^m.5$	−1".44
	11	.118	.2563	.1043	14.91	22 31.4	.3102	12 34.0	1.31
	12	.129	.2531	.1047	14.98	22 32.0	.3104	12 30.4	1.17
	13	.141	.2499	.1051	15.04	22 32.6	.3106	12 26.9	1.04
	14	.152	.2467	.1054	15.11	22 33.2	.3107	12 23.4	0.91
	15	.163	.2434	.1057	15.17	22 33.7	.3108	12 19.9	0.77
	16	.175	.2401	.1059	15.24	22 34.3	.3109	12 16.4	0.64
	17	.186	.2368	.1061	15.30	22 34.8	.3110	12 12.9	0.50
	18	.198	.2335	.1063	15.37	22 35.3	.3110	12 9.4	0.36
	19	.209	.2301	.1064	15.44	22 35.8	.3111	12 5.9	0.23
	20	+2.221	−0.2267	+0.1065	15.51	22 36.3	1.3111	12 2.4	−0.09
	21	.232	.2233	.1065	15.57	22 36.8	.3111	11 58.9	+0.04
	22	.244	.2199	.1065	15.64	22 37.3	.3111	11 55.4	0.18
	23	.255	.2165	.1064	15.71	22 37.7	.3111	11 51.9	0.31
	24	.267	.2131	.1063	15.78	22 38.2	.3110	11 48.4	0.45
	25	.278	.2096	.1061	15.85	22 38.6	.3109	11 44.9	0.58
	26	.290	.2062	.1058	15.92	22 39.0	.3108	11 41.4	0.72
	27	.301	.2027	.1055	15.99	22 39.4	.3107	11 37.9	0.85
	28	.313	.1993	.1052	16.06	22 39.8	.3106	11 34.4	0.99
	29	.324	.1958	.1048	16.13	22 40.2	.3105	11 30.8	1.12
	30	+2.335	−0.1924	+0.1044	16.19	22 40.6	1.3103	11 27.3	+1.26
Juli	1	.347	.1889	.1040	16.26	22 41.0	.3101	11 23.8	1.39
	2	.358	.1854	.1035	16.33	22 41.3	.3099	11 20.3	1.53
	3	.369	.1819	.1029	16.40	22 41.7	.3097	11 16.8	1.66
	4	.380	.1784	.1023	16.47	22 42.0	.3095	11 13.3	1.79
	5	.392	.1749	.1016	16.54	22 42.3	.3092	11 9.8	1.93
	6	.403	.1714	.1009	16.61	22 42.6	.3089	11 6.2	2.06
	7	.414	.1680	.1001	16.68	22 42.9	.3086	11 2.7	2.19
	8	.425	.1645	.0993	16.75	22 43.2	.3083	10 59.1	2.32
	9	.436	.1611	.0985	16.82	22 43.4	.3080	10 55.6	2.45
	10	+2.447	−0.1577	+0.0977	16.89	22 43.7	1.3077	10 52.0	+2.58
	11	.458	.1543	.0968	16.96	22 44.0	.3073	10 48.5	2.70
	12	.469	.1508	.0958	17.03	22 44.2	.3069	10 44.9	2.83
	13	.480	.1474	.0948	17.10	22 44.4	.3065	10 41.3	2.96
	14	.491	.1440	.0938	17.17	22 44.7	.3061	10 37.8	3.08
	15	.501	.1406	.0927	17.23	22 44.9	.3057	10 34.2	3.21
	16	.512	.1372	.0917	17.30	22 45.1	.3053	10 30.6	3.33
	17	.522	.1338	.0906	17.37	22 45.3	.3048	10 27.0	3.46
	18	.533	.1304	.0895	17.44	22 45.5	.3044	10 23.4	3.58
	19	.543	.1271	.0883	17.50	22 45.7	.3039	10 19.8	3.70
	20	+2.554	−0.1238	+0.0871	17.57	22 45.8	1.3034	10 16.2	+3.82
	21	.564	.1205	.0859	17.64	22 46.0	.3029	10 12.5	3.94
	22	.575	.1172	.0846	17.70	22 46.2	.3024	10 8.9	4.06
	23	.585	.1139	.0833	17.77	22 46.3	.3019	10 5.2	4.18
	24	.595	.1106	.0819	17.83	22 46.5	.3013	10 1.5	4.29
	25	.605	.1074	.0805	17.90	22 46.6	.3008	9 57.9	4.41
	26	.615	.1042	.0791	17.96	22 46.7	.3002	9 54.2	4.52
	27	.625	.1010	.0777	18.03	22 46.9	.2997	9 50.5	4.63
	28	.634	.0978	.0763	18.09	22 47.0	.2991	9 46.8	4.74
	29	.644	.0946	.0750	18.16	22 47.1	.2986	9 43.1	4.85

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	30	$+2^s.654$	−0.0914	+0.0736	18.″22	$22^h47.^m2$	1.2980	$9^h39.^m4$	+4.″96
	31	.663	.0883	.0721	18.28	22 47.3	.2974	9 35.6	5.07
August	1	.672	.0852	.0706	18.34	22 47.4	.2968	9 31.9	5.18
	2	.682	.0821	.0691	18.41	22 47.5	.2962	9 28.1	5.28
	3	.691	.0790	.0675	18.47	22 47.6	.2956	9 24.4	5.39
	4	.700	.0760	.0660	18.53	22 47.7	.2949	9 20.6	5.49
	5	.710	.0730	.0645	18.59	22 47.8	.2943	9 16.8	5.59
	6	.719	.0700	.0630	18.65	22 47.9	.2937	9 13.0	5.68
	7	.728	.0671	.0615	18.71	22 48.0	.2931	9 9.2	5.78
	8	.736	.0642	.0600	18.76	22 48.1	.2925	9 5.3	5.88
	9	+2.745	−0.0613	+0.0584	18.82	22 48.1	1.2918	9 1.5	+5.97
	10	.754	.0584	.0569	18.88	22 48.2	.2912	8 57.6	6.06
	11	.762	.0556	.0553	18.94	22 48.3	.2906	8 53.8	6.15
	12	.771	.0528	.0538	18.99	22 48.4	.2899	8 49.9	6.24
	13	.779	.0500	.0523	19.05	22 48.4	.2893	8 46.0	6.33
	14	.788	.0472	.0508	19.10	22 48.5	.2887	8 42.1	6.41
	15	.796	.0445	.0493	19.16	22 48.6	.2881	8 38.2	6.50
	16	.804	.0418	.0478	19.21	22 48.6	.2874	8 34.2	6.58
	17	.812	.0391	.0463	19.27	22 48.7	.2868	8 30.3	6.66
	18	.820	.0365	.0449	19.32	22 48.8	.2862	8 26.3	6.74
	19	+2.828	−0.0339	+0.0434	19.37	22 48.8	1.2856	8 22.4	+6.81
	20	.836	.0313	.0420	19.42	22 48.9	.2850	8 18.4	6.89
	21	.843	.0287	.0406	19.48	22 49.0	.2845	8 14.4	6.96
	22	.851	.0261	.0392	19.53	22 49.1	.2839	8 10.4	7.03
	23	.859	.0236	.0378	19.58	22 49.1	.2833	8 6.3	7.10
	24	.866	.0211	.0365	19.63	22 49.2	.2828	8 2.3	7.16
	25	.874	.0187	.0352	19.68	22 49.3	.2822	7 58.3	7.23
	26	.881	.0163	.0339	19.72	22 49.4	.2816	7 54.2	7.29
	27	.888	.0139	.0326	19.77	22 49.4	.2811	7 50.1	7.35
	28	.896	.0116	.0314	19.82	22 49.5	.2806	7 46.1	7.41
	29	+2.903	−0.0093	+0.0303	19.87	22 49.6	1.2801	7 42.0	+7.46
	30	.910	.0070	.0292	19.91	22 49.7	.2796	7 37.9	7.52
	31	.917	.0047	.0281	19.96	22 49.8	.2792	7 33.8	7.57
Septbr.	1	.924	.0024	.0270	20.00	22 49.9	.2787	7 29.6	7.62
	2	.931	−0.0002	.0259	20.05	22 50.0	.2783	7 25.5	7.67
	3	.938	+0.0020	.0249	20.09	22 50.1	.2778	7 21.3	7.71
	4	.945	.0042	.0239	20.14	22 50.2	.2774	7 17.2	7.76
	5	.952	.0064	.0230	20.18	22 50.3	.2770	7 13.0	7.80
	6	.958	.0085	.0221	20.22	22 50.4	.2767	7 8.9	7.83
	7	.965	.0106	.0213	20.27	22 50.5	.2763	7 4.7	7.87
	8	+2.972	+0.0127	+0.0205	20.31	22 50.6	1.2760	7 0.5	+7.90
	9	.978	.0148	.0198	20.35	22 50.8	.2757	6 56.3	7.94
	10	.985	.0169	.0191	20.39	22 50.9	.2754	6 52.1	7.97
	11	.991	.0189	.0185	20.43	22 51.0	.2751	6 47.9	8.00
	12	2.998	.0209	.0179	20.47	22 51.2	.2749	6 43.7	8.03
	13	3.004	.0229	.0174	20.51	22 51.3	.2747	6 39.4	8.05
	14	.011	.0249	.0169	20.55	22 51.5	.2745	6 35.2	8.07
	15	.017	.0269	.0165	20.59	22 51.6	.2743	6 31.0	8.09
	16	.023	.0289	.0161	20.63	22 51.8	.2741	6 26.7	8.10
	17	.030	.0308	.0158	20.67	22 52.0	.2740	6 22.5	8.12

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	10	$+1^s.502$	−0.3680	+0.0700	12″.67	$21^h22^m.5$	1.2966	$14^h29^m.2$	−5″.21
	11	.511	.3663	.0715	12.71	21 23.5	.2972	14 25.4	5.10
	12	.521	.3645	.0730	12.74	21 24.6	.2978	14 21.6	4.99
	13	.531	.3627	.0745	12.78	21 25.6	.2984	14 17.9	4.88
	14	.541	.3608	.0759	12.82	21 26.6	.2989	14 14.1	4.77
	15	.551	.3589	.0773	12.86	21 27.7	.2995	14 10.4	4.66
	16	.561	.3569	.0787	12.89	21 28.7	.3001	14 6.7	4.54
	17	.571	.3549	.0801	12.93	21 29.7	.3006	14 3.0	4.43
	18	.581	.3529	.0814	12.97	21 30.7	.3012	13 59.3	4.32
	19	.591	.3508	.0828	13.02	21 31.7	.3017	13 55.6	4.20
	20	+1.602	−0.3487	+0.0841	13.06	21 32.7	1.3022	13 51.9	−4.08
	21	.612	.3466	.0854	13.10	21 33.7	.3028	13 48.2	3.96
	22	.623	.3444	.0867	13.15	21 34.6	.3033	13 44.6	3.84
	23	.634	.3422	.0879	13.19	21 35.6	.3038	13 40.9	3.72
	24	.644	.3399	.0891	13.24	21 36.6	.3042	13 37.3	3.60
	25	.655	.3376	.0903	13.28	21 37.6	.3047	13 33.7	3.48
	26	.666	.3353	.0914	13.33	21 38.5	.3052	13 30.1	3.36
	27	.677	.3329	.0925	13.38	21 39.5	.3056	13 26.5	3.23
	28	.688	.3305	.0936	13.42	21 40.4	.3060	13 22.9	3.11
	29	.699	.3280	.0947	13.47	21 41.3	.3065	13 19.3	2.98
	30	+1.710	−0.3255	+0.0957	13.52	21 42.3	1.3069	13 15.7	−2.85
	31	.721	.3230	.0967	13.58	21 43.2	.3073	13 12.1	2.72
Juni	1	.732	.3204	.0976	13.63	21 44.1	.3076	13 8.5	2.59
	2	.743	.3178	.0985	13.68	21 45.0	.3080	13 4.9	2.47
	3	.754	.3152	.0993	13.73	21 45.8	.3083	13 1.4	2.34
	4	.766	.3125	.1001	13.79	21 46.7	.3086	12 57.8	2.20
	5	.777	.3098	.1008	13.84	21 47.6	.3089	12 54.3	2.07
	6	.789	.3070	.1015	13.90	21 48.4	.3092	12 50.7	1.94
	7	.800	.3042	.1022	13.95	21 49.3	.3094	12 47.2	1.81
	8	.812	.3014	.1028	14.01	21 50.1	.3097	12 43.6	1.68
	9	+1.823	−0.2985	+0.1034	14.07	21 50.9	1.3099	12 40.1	−1.54
	10	.835	.2956	.1039	14.12	21 51.7	.3101	12 36.6	1.41
	11	.846	.2927	.1044	14.18	21 52.5	.3103	12 33.1	1.28
	12	.858	.2897	.1048	14.24	21 53.2	.3105	12 29.6	1.14
	13	.869	.2867	.1052	14.30	21 54.0	.3106	12 26.1	1.01
	14	.881	.2837	.1055	14.36	21 54.7	.3107	12 22.5	0.87
	15	.892	.2807	.1058	14.42	21 55.5	.3108	12 19.0	0.74
	16	.904	.2776	.1060	14.49	21 56.2	.3109	12 15.5	0.60
	17	.916	.2745	.1062	14.55	21 56.9	.3110	12 12.0	0.47
	18	.927	.2714	.1063	14.61	21 57.6	.3111	12 8.5	0.33
	19	+1.939	−0.2683	+0.1064	14.67	21 58.2	1.3111	12 5.0	−0.19
	20	.951	.2651	.1065	14.74	21 58.9	.3111	12 1.5	−0.06
	21	.962	.2618	.1065	14.80	21 59.6	.3111	11 58.0	+0.08
	22	.974	.2586	.1064	14.87	22 0.2	.3111	11 54.6	0.21
	23	.986	.2554	.1063	14.93	22 0.8	.3111	11 51.1	0.35
	24	1.998	.2522	.1062	15.00	22 1.4	.3110	11 47.6	0.48
	25	2.009	.2489	.1060	15.06	22 2.0	.3109	11 44.0	0.62
	26	.021	.2457	.1057	15.13	22 2.6	.3108	11 40.5	0.75
	27	.032	.2424	.1054	15.19	22 3.2	.3107	11 37.0	0.89
	28	.044	.2391	.1051	15.26	22 3.7	.3106	11 33.5	1.02

1840

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	29	+2s.056	−0.2358	+0.1047	15″.32	22h 4m.3	1.3104	11h30m.0	+1″.16
	30	.067	.2325	.1043	15.39	22 4.8	.3103	11 26.5	1.29
Juli	1	.079	.2291	.1039	15.46	22 5.3	.3101	11 23.0	1.42
	2	.090	.2258	.1034	15.53	22 5.8	.3099	11 19.5	1.56
	3	.102	.2224	.1028	15.59	22 6.3	.3097	11 16.0	1.69
	4	.113	.2190	.1022	15.66	22 6.8	.3094	11 12.4	1.83
	5	.125	.2156	.1015	15.73	22 7.2	.3091	11 8.9	1.96
	6	.136	.2123	.1008	15.80	22 7.7	.3088	11 5.4	2.09
	7	.147	.2089	.1000	15.86	22 8.1	.3085	11 1.8	2.22
	8	.159	.2055	.0992	15.93	22 8.5	.3082	10 58.3	2.35
	9	+2.170	−0.2021	+0.0984	16.00	22 8.9	1.3079	10 54.7	+2.48
	10	.181	.1987	.0975	16.07	22 9.3	.3076	10 51.2	2.61
	11	.192	.1954	.0966	16.13	22 9.7	.3072	10 47.6	2.73
	12	.203	.1920	.0956	16.20	22 10.1	.3068	10 44.1	2.86
	13	.214	.1887	.0946	16.27	22 10.5	.3064	10 40.5	2.99
	14	.225	.1853	.0936	16.34	22 10.8	.3060	10 36.9	3.11
	15	.236	.1820	.0925	16.40	22 11.2	.3056	10 33.3	3.24
	16	.247	.1786	.0914	16.47	22 11.5	.3052	10 29.7	3.36
	17	.257	.1753	.0903	16.54	22 11.8	.3047	10 26.1	3.49
	18	.268	.1720	.0892	16.60	22 12.2	.3043	10 22.5	3.61
	19	+2.279	−0.1687	+0.0880	16.67	22 12.5	1.3038	10 18.9	+3.73
	20	.289	.1654	.0868	16.74	22 12.7	.3033	10 15.3	3.85
	21	.300	.1621	.0855	16.80	22 13.0	.3028	10 11.6	3.97
	22	.310	.1588	.0842	16.87	22 13.3	.3023	10 8.0	4.09
	23	.321	.1555	.0829	16.93	22 13.6	.3018	10 4.3	4.20
	24	.331	.1522	.0816	17.00	22 13.8	.3012	10 0.7	4.32
	25	.341	.1490	.0802	17.06	22 14.1	.3007	9 57.0	4.44
	26	.351	.1458	.0788	17.13	22 14.3	.3001	9 53.3	4.55
	27	.361	.1426	.0774	17.19	22 14.6	.2995	9 49.6	4.66
	28	.371	.1394	.0760	17.26	22 14.8	.2990	9 45.9	4.77
	29	+2.381	−0.1362	+0.0746	17.32	22 15.0	1.2984	9 42.2	+4.88
	30	.391	.1330	.0732	17.38	22 15.2	.2978	9 38.5	4.99
	31	.401	.1299	.0717	17.45	22 15.5	.2972	9 34.7	5.09
August	1	.410	.1268	.0702	17.51	22 15.7	.2966	9 31.0	5.20
	2	.420	.1237	.0687	17.57	22 15.8	.2960	9 27.2	5.31
	3	.429	.1206	.0672	17.63	22 16.0	.2954	9 23.4	5.41
	4	.439	.1176	.0657	17.69	22 16.2	.2948	9 19.7	5.51
	5	.448	.1146	.0642	17.75	22 16.4	.2942	9 15.9	5.61
	6	.457	.1116	.0627	17.81	22 16.6	.2936	9 12.1	5.71
	7	.466	.1086	.0612	17.87	22 16.7	.2929	9 8.2	5.80
	8	+2.475	−0.1057	+0.0596	17.93	22 16.9	1.2923	9 4.4	+5.90
	9	.484	.1027	.0580	17.99	22 17.1	.2917	9 0.6	5.99
	10	.493	.0998	.0565	18.05	22 17.2	.2910	8 56.7	6.08
	11	.502	.0969	.0549	18.11	22 17.4	.2904	8 52.8	6.17
	12	.510	.0941	.0534	18.16	22 17.5	.2898	8 48.9	6.26
	13	.519	.0913	.0519	18.22	22 17.7	.2892	8 45.0	6.35
	14	.527	.0885	.0504	18.28	22 17.8	.2885	8 41.1	6.43
	15	.536	.0857	.0489	18.33	22 18.0	.2879	8 37.2	6.52
	16	.544	.0830	.0474	18.39	22 18.1	.2873	8 33.3	6.60
	17	.552	.0803	.0459	18.44	22 18.3	.2867	8 29.3	6.68

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	18	$+2^s.561$	−0.0776	+0.0444	18″.50	$22^h18^m.4$	1.2861	$8^h25^m.4$	+6″.75
	19	.569	.0749	.0430	18.55	22 18.6	.2855	8 21.4	6.83
	20	.577	.0723	.0416	18.60	22 18.7	.2849	8 17.4	6.90
	21	.585	.0697	.0402	18.65	22 18.8	.2843	8 13.4	6.98
	22	.593	.0671	.0389	18.71	22 19.0	.2837	8 9.4	7.05
	23	.601	.0646	.0375	18.76	22 19.1	.2832	8 5.4	7.11
	24	.608	.0621	.0362	18.81	22 19.3	.2826	8 1.3	7.18
	25	.616	.0597	.0349	18.85	22 19.4	.2821	7 57.3	7.25
	26	.623	.0573	.0336	18.90	22 19.5	.2815	7 53.2	7.31
	27	.631	.0549	.0323	18.95	22 19.7	.2810	7 49.1	7.37
	28	+2.638	−0.0525	+0.0311	19.00	22 19.8	1.2805	7 45.1	+7.42
	29	.646	.0501	.0299	19.05	22 20.0	.2800	7 41.0	7.48
	30	.653	.0477	.0288	19.09	22 20.1	.2795	7 36.9	7.53
	31	.660	.0454	.0277	19.14	22 20.3	.2791	7 32.8	7.58
Septbr.	1	.668	.0431	.0267	19.19	22 20.4	.2786	7 28.6	7.63
	2	.675	.0408	.0257	19.23	22 20.6	.2782	7 24.5	7.68
	3	.682	.0386	.0247	19.28	22 20.7	.2777	7 20.3	7.72
	4	.689	.0364	.0237	19.32	22 20.9	.2773	7 16.2	7.77
	5	.696	.0342	.0228	19.37	22 21.1	.2770	7 12.0	7.81
	6	.703	.0321	.0219	19.41	22 21.2	.2766	7 7.9	7.84
	7	+2.710	−0.0300	+0.0211	19.45	22 21.4	1.2762	7 3.7	+7.88
	8	.716	.0279	0203	19.49	22 21.6	.2759	6 59.5	7.91
	9	.723	.0258	.0196	19.54	22 21.8	.2756	6 55.3	7.95
	10	.730	.0237	.0190	19.58	22 21.9	.2753	6 51.1	7.98
	11	.737	.0217	.0184	19.62	22 22.1	.2750	6 46.9	8.01
	12	.743	.0197	.0178	19.66	22 22.3	.2748	6 42.7	8.03
	13	.750	.0177	.0173	19.70	22 22.5	.2746	6 38.4	8.05
	14	.757	.0157	.0169	19.74	22 22.7	.2744	6 34.2	8.07
	15	.763	.0137	.0165	19.78	22 22.9	.2742	6 30.0	8.09
	16	.770	.0117	.0161	19.82	22 23.1	.2741	6 25.7	8.11
	17	+2.776	−0.0098	+0.0158	19.85	22 23.3	1.2740	6 21.4	+8.12
	18	.783	.0079	.0156	19.89	22 23.6	.2739	6 17.2	8.13
	19	.790	.0060	.0154	19.93	22 23.8	.2738	6 12.9	8.14
	20	.796	.0041	.0152	19.97	22 24.0	.2737	6 8.6	8.14
	21	.803	.0023	.0151	20.01	22 24.3	.2737	6 4.4	8.15
	22	.809	− .0004	.0150	20.04	22 24.5	.2736	6 0.1	8.15
	23	.816	+ .0014	.0150	20.08	22 24.8	.2736	5 55.8	8.15
	24	.822	.0033	.0151	20.12	22 25.0	.2737	5 51.5	8.14
	25	.829	.0051	.0152	20.15	22 25.3	.2737	5 47.3	8.14
	26	.835	.0069	.0154	20.19	22 25.5	.2738	5 43.0	8.13
	27	+2.842	+0.0087	+0.0156	20.23	22 25.8	1.2739	5 38.7	+8.12
	28	.848	.0105	.0159	20.26	22 26.1	.2740	5 34.4	8.11
	29	.855	.0123	.0163	20.30	22 26.4	.2742	5 30.1	8.09
	30	.861	.0141	.0168	20.33	22 26.7	.2744	5 25.8	8.07
Oktbr.	1	.868	.0159	.0173	20.37	22 27.0	.2746	5 21.6	8.05
	2	.875	.0176	.0178	20.41	22 27.3	.2748	5 17.3	8.03
	3	.881	.0194	.0184	20.44	22 27.6	.2751	5 13.0	8.00
	4	.888	.0212	.0190	20.48	22 27.9	.2753	5 8.8	7.97
	5	.895	.0230	.0197	20.51	22 28.2	.2756	5 4.5	7.94
	6	.902	.0248	.0204	20.55	22 28.6	.2759	5 0.2	7.91

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	7	+2.908	+0.0266	+0.0212	20″.58	$22^h28^m.9$	1.2763	$4^h56^m.0$	+7″.88
	8	.915	.0284	.0220	20.62	22 29.2	.2766	4 51.7	7.84
	9	.922	.0302	.0229	20.66	22 29.6	.2770	4 47.5	7.80
	10	.929	.0320	.0238	20.69	22 30.0	.2774	4 43.2	7.76
	11	.936	.0338	.0248	20.73	22 30.3	.2778	4 39.0	7.72
	12	.943	.0356	.0258	20.76	22 30.7	.2782	4 34.7	7.67
	13	.951	.0374	.0269	20.80	22 31.1	.2787	4 30.5	7.62
	14	.958	.0392	.0280	20.84	22 31.4	.2791	4 26.3	7.57
	15	.965	.0411	.0291	20.88	22 31.8	.2796	4 22.1	7.52
	16	.973	.0430	.0303	20.91	22 32.2	.2801	4 17.9	7.46
	17	+2.980	+0.0449	+0.0315	20.95	22 32.6	1.2807	4 13.7	+7.40
	18	.988	.0469	.0328	20.99	22 33.0	.2812	4 9.5	7.34
	19	2.995	.0488	.0341	21.03	22 33.4	.2817	4 5.3	7.28
	20	3.003	0507	.0354	21.07	22 33.8	.2823	4 1.1	7.22
	21	.011	.0526	.0368	21.11	22 34.2	.2829	3 56.9	7.15
	22	.018	.0546	.0382	21.15	22 34.6	.2834	3 52.8	7.08
	23	.026	.0566	.0396	21.19	22 35.1	.2840	3 48.6	7.01
	24	.034	.0586	.0410	21.23	22 35.5	.2846	3 44.5	6.94
	25	.043	.0607	.0425	21.27	22 35.9	.2852	3 40.3	6.86
	26	.051	.0628	.0440	21.31	22 36.3	.2859	3 36.2	6.78
	27	+3.059	+0.0649	+0.0455	21.35	22 36.8	1.2865	3 32.1	+6.70
	28	.067	.0670	.0470	21.40	22 37.2	.2871	3 28.0	6.62
	29	.076	.0692	.0485	21.44	22 37.7	.2877	3 23.9	6.54
	30	.084	.0714	.0500	21.48	22 38.1	.2884	3 19.8	6.45
	31	.093	.0736	.0516	21.53	22 38.6	.2890	3 15.7	6.36
Novbr.	1	.102	.0758	.0532	21.57	22 39.0	.2897	3 11.7	6.27
	2	.110	.0781	.0548	21.62	22 39.5	.2903	3 7.6	6.18
	3	.119	.0804	.0564	21.66	22 39.9	.2910	3 3.6	6.09
	4	.128	.0828	.0580	21.71	22 40.4	.2917	2 59.5	5.99
	5	.137	.0851	.0596	21.76	22 40.8	.2923	2 55.5	5.90
	6	+3.147	+0.0875	+0.0612	21.81	22 41.3	1.2930	2 51.5	+5.80
	7	.156	.0899	.0628	21.86	22 41.7	.2936	2 47.5	5.70
	8	.165	.0924	.0644	21.91	22 42.2	.2943	2 43.5	5.59
	9	.175	.0949	.0660	21.96	22 42.6	.2949	2 39.5	5.49
	10	.184	.0975	.0676	22.01	22 43.1	.2956	2 35.5	5.38
	11	.194	.1001	.0692	22.06	22 43.5	.2962	2 31.6	5.27
	12	.204	.1027	.0707	22.11	22 44.0	.2968	2 27.6	5.16
	13	.213	.1053	.0722	22.16	22 44.4	.2975	2 23.7	5.05
	14	.223	.1080	.0737	22.22	22 44.9	.2981	2 19.8	4.94
	15	.234	.1107	.0752	22.27	22 45.3	.2987	2 15.8	4.82
	16	+3.244	+0.1135	+0.0767	22.33	22 45.8	1.2993	2 11.9	+4.70
	17	.254	.1163	.0782	22.38	22 46.2	.2999	2 8.0	4.59
	18	.264	.1191	.0796	22.44	22 46.7	.3005	2 4.1	4.47
	19	.275	.1220	.0811	22.50	22 47.1	.3010	2 0.2	4.35
	20	.285	.1249	.0825	22.56	22 47.5	.3016	1 56.3	4.22
	21	.296	.1278	.0839	22.61	22 48.0	.3022	1 52.5	4.10
	22	.307	.1308	.0853	22.67	22 48.4	.3027	1 48.6	3.98
	23	.317	.1338	.0867	22.73	22 48.8	.3033	1 44.8	3.85
	24	.328	.1369	.0880	22.80	22 49.2	.3038	1 40.9	3.72
	25	.339	.1400	.0893	22.86	22 49.7	.3043	1 37.1	3.59

1840

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	26	$+3^s.350$	+0.1431	+0.0905	22".92	$22^h50^m.1$	1.3048	$1^h33^m.3$	+3".46
	27	.361	.1463	.0917	22.99	22 50.5	.3053	1 29.4	3.33
	28	.372	.1495	.0928	23.05	22 50.9	.3057	1 25.6	3.20
	29	.384	.1527	.0940	23.11	22 51.3	.3062	1 21.8	3.07
	30	.395	.1559	.0951	23.18	22 51.7	.3066	1 18.0	2.93
Dezbr.	1	.406	.1592	.0961	23.24	22 52.0	.3070	1 14.2	2.80
	2	.418	.1625	.0971	23.31	22 52.4	.3074	1 10.4	2.66
	3	.429	.1658	.0980	23.38	22 52.8	.3078	1 6.6	2.53
	4	.441	.1692	.0989	23.44	22 53.2	.3081	1 2.8	2.39
	5	.453	.1726	.0997	23.51	22 53.5	.3084	0 59.0	2.25
	6	+3.464	+0.1760	+0.1005	23.58	22 53.9	1.3088	0 55.3	+2.11
	7	.476	.1794	.1013	23.65	22 54.2	.3091	0 51.5	1.97
	8	.488	.1829	.1020	23.72	22 54.6	.3093	0 47.7	1.83
	9	.500	.1864	.1027	23.79	22 54.9	.3096	0 44.0	1.69
	10	.512	.1900	.1033	23.86	22 55.2	.3098	0 40.2	1.55
	11	.523	.1936	.1038	23.93	22 55.5	.3101	0 36.5	1.40
	12	.535	.1972	.1043	24.01	22 55.8	.3103	0 32.7	1.26
	13	.547	.2008	.1048	24.08	22 56.1	.3104	0 29.0	1.12
	14	.559	.2044	.1052	24.15	22 56.4	.3106	0 25.2	0.98
	15	.571	.2080	.1056	24.22	22 56.7	.3107	0 21.5	0.83
	16	+3.583	+0.2117	+0.1059	24.30	22 57.0	1.3109	0 17.8	+0.69
	17	.595	.2153	.1061	24.37	22 57.3	.3110	0 14.0	0.55
	18	.607	.2190	.1063	24.44	22 57.6	.3110	0 10.3	0.40
	19	.619	.2227	.1064	24.52	22 57.8	.3111	0 6.6	0.25
	20	.631	.2264	.1064	24.59	22 58.1	.3111	0 2.8	+0.11
	21	.644	.2301	.1064	24.67	22 58.3	.3111	23 59.1	−0.04
	22	.656	.2338	.1064	24.74	22 58.5	.3111	23 55.3	0.18
	23	.668	.2375	.1063	24.82	22 58.8	.3111	23 51.6	0.33
	24	.680	.2413	.1062	24.89	22 59.0	.3110	23 47.8	0.47
	25	.692	.2450	.1060	24.97	22 59.2	.3109	23 44.1	0.62
	26	+3.704	+0.2488	+0.1058	25.04	22 59.4	1.3108	23 40.3	−0.76
	27	.716	.2525	.1055	25.12	22 59.6	.3107	23 36.6	0.90
	28	.728	.2563	.1051	25.19	22 59.8	.3106	23 32.8	1.05
	29	.740	.2600	.1047	25.27	23 0.0	.3104	23 29.1	1.19
	30	.752	.2638	.1042	25.34	23 0.2	.3102	23 25.3	1.33
	31	.764	.2676	.1037	25.42	23 0.4	.3100	23 21.6	1.47

1841

Januar	1	$+0^s.705$	−0.6015	+0.1030	7".99	$20^h20^m.1$	1.3097	$23^h17^m.9$	−1".62
	2	.716	.5991	.1023	8.04	20 21.9	.3095	23 14.1	1.76
	3	.728	.5967	.1016	8.09	20 23.6	.3092	23 10.3	1.90
	4	.740	.5943	.1009	8.13	20 25.3	.3089	23 6.5	2.04
	5	.752	.5919	.1002	8.18	20 26.9	.3086	23 2.7	2.18
	6	.763	.5894	.0994	8.23	20 28.5	.3083	22 59.0	2.32
	7	.775	.5869	.0985	8.28	20 30.1	.3080	22 55.2	2.46
	8	.787	.5844	.0976	8.33	20 31.6	.3076	22 51.4	2.60
	9	.798	.5818	.0966	8.39	20 33.1	.3072	22 47.6	2.73
	10	.809	.5792	.0956	8.44	20 34.6	.3068	22 43.7	2.87

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	11	+0.821	−0.5766	+0.0945	8″.49	$20^h 36^m.0$	1.3064	$22^h 39^m.9$	−3″.01
	12	.832	.5739	.0934	8.54	20 37.4	.3059	22 36.1	3.14
	13	.843	.5712	.0922	8.60	20 38.8	.3055	22 32.3	3.27
	14	.854	.5685	.0910	8.65	20 40.1	.3050	22 28.4	3.40
	15	.865	.5658	.0898	8.70	20 41.4	.3045	22 24.6	3.54
	16	.876	.5631	.0885	8.76	20 42.6	.3040	22 20.7	3.67
	17	.887	.5604	.0873	8.81	20 43.8	.3035	22 16.9	3.79
	18	.898	.5577	.0860	8.87	20 45.0	.3030	22 13.0	3.92
	19	.909	.5549	.0847	8.92	20 46.2	.3025	22 9.1	4.05
	20	.920	.5522	.0833	8.98	20 47.3	.3019	22 5.2	4.17
	21	+0.930	−0.5494	+0.0819	9.03	20 48.4	1.3013	22 1.3	−4.30
	22	.940	.5467	.0804	9.09	20 49.5	.3007	21 57.4	4.42
	23	.951	.5439	.0789	9.14	20 50.5	.3001	21 53.5	4.54
	24	.961	.5412	.0774	9.20	20 51.5	.2995	21 49.6	4.66
	25	.971	.5384	.0759	9.25	20 52.5	.2989	21 45.6	4.78
	26	.981	.5357	.0744	9.31	20 53.5	.2983	21 41.7	4.90
	27	0.991	.5330	.0729	9.36	20 54.4	.2977	21 37.7	5.01
	28	1.001	.5303	.0713	9.42	20 55.3	.2971	21 33.7	5.12
	29	.011	.5276	.0697	9.47	20 56.2	.2964	21 29.8	5.24
	30	.021	.5249	.0681	9.53	20 57.1	.2958	21 25.8	5.35
	31	+1.030	−0.5222	+0.0665	9.58	20 57.9	1.2951	21 21.8	−5.45
Februar	1	.040	.5195	.0649	9.63	20 58.7	.2945	21 17.8	5 56
	2	.049	.5168	.0632	9.69	20 59.5	.2938	21 13.8	5.66
	3	.059	.5141	.0616	9.74	21 0.3	.2932	21 9.7	5.77
	4	.068	.5115	.0600	9.79	21 1.1	.2925	21 5.7	5.87
	5	.077	.5089	.0584	9.85	21 1.8	.2918	21 1.6	5.96
	6	.086	.5063	.0568	9.90	21 2.5	.2912	20 57.6	6.06
	7	.095	.5038	.0552	9.95	21 3.2	.2905	20 53.5	6.16
	8	.104	.5013	.0536	10.00	21 3.9	.2898	20 49.4	6.25
	9	.112	.4988	.0520	10.05	21 4.6	.2892	20 45.3	6.34
	10	+1.121	−0.4963	+0.0504	10.10	21 5.3	1.2885	20 41.2	−6.43
	11	.130	.4938	.0489	10.15	21 5.9	.2879	20 37.1	6.52
	12	.138	.4914	.0474	10.20	21 6.6	.2873	20 33.0	6.60
	13	.146	.4890	.0459	10.25	21 7.2	.2866	20 28.8	6.69
	14	.155	.4866	.0444	10.29	21 7.8	.2860	20 24.6	6.77
	15	.163	.4842	.0429	10.34	21 8.4	.2854	20 20.5	6.85
	16	.171	.4819	.0414	10.39	21 9.0	.2847	20 16.3	6.92
	17	.179	.4796	.0399	10.43	21 9.6	.2841	20 12.1	7.00
	18	.186	.4773	.0384	10.48	21 10.2	.2836	20 7.9	7.07
	19	.194	.4750	.0370	10.53	21 10.7	.2830	20 3.7	7.14
	20	+1.202	−0.4728	+0.0356	10.57	21 11.3	1.2824	19 59.5	−7.21
	21	.210	.4706	.0343	10.62	21 11.9	.2818	19 55.3	7.27
	22	.217	.4685	.0330	10.66	21 12.4	.2812	19 51.1	7.34
	23	.225	.4664	.0317	10.70	21 13.0	.2807	19 46.8	7.40
	24	.232	.4643	.0304	10.74	21 13.5	.2802	19 42.6	7.46
	25	.239	.4622	.0292	10.78	21 14.1	.2797	19 38.3	7.51
	26	.247	.4601	.0281	10.83	21 14.6	.2792	19 34.1	7.57
	27	.254	.4581	.0270	10.87	21 15.1	.2787	19 29.8	7.62
	28	.261	.4561	.0259	10.91	21 15.6	.2782	19 25.5	7.67
März	1	.268	.4542	.0249	10.94	21 16.2	.2778	19 21.2	7.72

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	10	$+2^s.628$	−0.1331	+0.0979	17″.38	$23^h21^m.5$	1.3077	$10^h52^m.9$	+2″.54
	11	.639	.1297	.0970	17.45	23 21.6	.3074	10 49.3	2.67
	12	.649	.1262	.0960	17.52	23 21.7	.3070	10 45.8	2.80
	13	.660	.1227	.0950	17.59	23 21.8	.3066	10 42.2	2.93
	14	.671	.1193	.0940	17.66	23 21.9	.3062	10 38.7	3.05
	15	.681	.1159	.0930	17.73	23 22.0	.3058	10 35.1	3.18
	16	.691	.1125	.0920	17.79	23 22.1	.3054	10 31.5	3.30
	17	.702	.1092	.0909	17.86	23 22.1	.3049	10 27.9	3.43
	18	.712	.1059	.0898	17.93	23 22.2	.3045	10 24.3	3.55
	19	.722	.1026	.0886	18.00	23 22.3	.3040	10 20.7	3.67
	20	+2.732	−0.0993	+0.0874	18.06	23 22.3	1.3035	10 17.0	+3.79
	21	.742	.0960	.0862	18.13	23 22.3	.3031	10 13.4	3.91
	22	.752	.0927	.0849	18.19	23 22.4	.3026	10 9.7	4.03
	23	.762	.0895	.0836	18.26	23 22.4	.3020	10 6.1	4.15
	24	.772	.0863	.0823	18.32	23 22.5	.3015	10 2.4	4.27
	25	.782	.0831	.0809	18.39	23 22.5	.3009	9 58.8	4.38
	26	.792	.0799	.0795	18.45	23 22.5	.3004	9 55.1	4.50
	27	.801	.0768	.0781	18.51	23 22.5	.2998	9 51.4	4.61
	28	.811	.0736	.0767	18.58	23 22.5	.2993	9 47.7	4.72
	29	.820	.0705	.0753	18.64	23 22.5	.2987	9 44.0	4.83
	30	+2.830	−0.0674	+0.0739	18.70	23 22.5	1.2981	9 40.3	+4.93
	31	.839	.0643	.0724	18.76	23 22.5	.2975	9 36.5	5.04
August	1	.848	.0613	.0709	18.82	23 22.5	.2969	9 32.8	5.15
	2	.857	.0583	.0694	18.88	23 22.5	.2963	9 29.0	5.26
	3	.866	.0553	.0679	18.94	23 22.5	.2957	9 25.3	5.36
	4	.875	.0524	.0664	19.00	23 22.5	.2951	9 21.5	5.46
	5	.884	.0494	.0649	19.06	23 22.5	.2945	9 17.7	5.56
	6	.893	.0465	.0634	19.12	23 22.5	.2939	9 13.9	5.66
	7	.901	.0436	.0618	19.18	23 22.5	.2932	9 10.1	5.76
	8	.910	.0408	.0603	19.23	23 22.5	.2926	9 6.3	5.85
	9	+2.918	−0.0380	+0.0587	19.29	23 22.5	1.2920	9 2.4	+5.95
	10	.927	.0352	.0572	19.35	23 22.5	.2913	8 58.6	6.04
	11	.935	.0324	.0557	19.40	23 22.5	.2907	8 54.7	6.13
	12	.943	.0297	.0542	19.46	23 22.4	.2901	8 50.8	6.22
	13	.951	.0270	.0527	19.51	23 22.4	.2895	8 46.9	6.31
	14	.960	.0243	.0512	19.56	23 22.4	.2888	8 43.0	6.39
	15	.968	.0216	.0497	19.62	23 22.4	.2882	8 39.1	6.48
	16	.975	.0190	.0482	19.67	23 22.4	.2876	8 35.2	6.56
	17	.983	.0164	.0467	19.72	23 22.4	.2870	8 31.2	6.64
	18	.991	.0138	.0452	19.77	23 22.3	.2864	8 27.3	6.72
	19	+2.999	−0.0113	+0.0437	19.82	23 22.3	1.2858	8 23.3	+6.79
	20	3.006	.0088	.0423	19.88	23 22.3	.2852	8 19.3	6.87
	21	.014	.0063	.0409	19.93	23 22.3	.2846	8 15.3	6.94
	22	.021	.0038	.0396	19.98	23 22.3	.2840	8 11.3	7.01
	23	.029	−0.0014	.0382	20.02	23 22.3	.2835	8 7.3	7.08
	24	.036	+0.0010	.0369	20.07	23 22.3	.2829	8 3.3	7.15
	25	.043	.0034	.0355	20.12	23 22.3	.2823	7 59.2	7.21
	26	.050	.0057	.0342	20.17	23 22.3	.2818	7 55.2	7.28
	27	.057	.0080	.0329	20.21	23 22.3	.2812	7 51.1	7.34
	28	.064	.0103	.0317	20.26	23 22.4	.2807	7 47.0	7.40

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	29	$+3^s.071$	+0.0126	+0.0305	20.″30	$23^h22^m.4$	1.2802	$7^h43^m.0$	+7.″45
	30	.078	.0149	.0294	20.35	23 22.4	.2797	7 38.9	7.51
	31	.085	.0171	.0283	20.39	23 22.4	.2793	7 34.8	7.56
Septbr.	1	.091	.0193	.0272	20.44	23 22.5	.2788	7 30.6	7.61
	2	.098	.0215	.0261	20.48	23 22.5	.2784	7 26.5	7.66
	3	.105	.0237	.0251	20.52	23 22.5	.2779	7 22.4	7.70
	4	.111	.0258	.0241	20.57	23 22.6	.2775	7 18.2	7.75
	5	.118	.0279	.0232	20.61	23 22.6	.2771	7 14.0	7.79
	6	.124	.0300	.0223	20.65	23 22.7	.2768	7 9.9	7.83
	7	.131	.0320	.0215	20.69	23 22.7	.2764	7 5.7	7.86
	8	+3.137	+0.0340	+0.0207	20.73	23 22.8	1.2761	7 1.5	+7.90
	9	.143	.0360	.0200	20.77	23 22.9	.2757	6 57.3	7.93
	10	.150	.0380	.0193	20.82	23 22.9	.2754	6 53.1	7.96
	11	.156	.0400	.0186	20.86	23 23.0	.2752	6 48.9	7.99
	12	.162	.0420	.0180	20.90	23 23.1	.2749	6 44.7	8.02
	13	.168	.0440	.0175	20.93	23 23.2	.2747	6 40.5	8.04
	14	.175	.0460	.0170	20.97	23 23.3	.2745	6 36.2	8.06
	15	.181	.0479	.0166	21.01	23 23.4	.2743	6 32.0	8.08
	16	.187	.0499	.0162	21.05	23 23.5	.2742	6 27.7	8.10
	17	.193	.0518	.0159	21.09	23 23.6	.2740	6 23.5	8.11
	18	+3.199	+0.0537	+0.0156	21.13	23 23.7	1.2739	6 19.2	+8.12
	19	.205	.0556	.0154	21.17	23 23.9	.2738	6 15.0	8.13
	20	.211	.0575	.0152	21.20	23 24.0	.2737	6 10.7	8.14
	21	.217	.0594	.0151	21.24	23 24.2	.2737	6 6.4	8.15
	22	.223	.0613	.0150	21.28	23 24.3	.2737	6 2.2	8.15
	23	.229	.0632	.0150	21.32	23 24.4	.2737	5 57.9	8.15
	24	.235	.0651	.0151	21.36	23 24.6	.2737	5 53.6	8.15
	25	.241	.0669	.0152	21.39	23 24.8	.2737	5 49.3	8.14
	26	.247	.0688	.0154	21.43	23 24.9	.2738	5 45.0	8.14
	27	.253	.0707	.0156	21.47	23 25.1	.2739	5 40.8	8.13
	28	+3.259	+0.0726	+0.0159	21.51	23 25.3	1.2740	5 36.5	+8.11
	29	.265	.0744	.0162	21.54	23 25.5	.2741	5 32.2	8.10
	30	.271	.0763	.0166	21.58	23 25.7	.2743	5 27.9	8.08
Oktbr.	1	.277	.0782	.0170	21.62	23 25.9	.2745	5 23.6	8.06
	2	.284	.0801	.0175	21.66	23 26.1	.2747	5 19.4	8.04
	3	.290	.0820	.0181	21.70	23 26.3	.2749	5 15.1	8.02
	4	.296	.0838	.0187	21.73	23 26.5	.2752	5 10.8	7.99
	5	.302	.0857	.0193	21.77	23 26.8	.2755	5 6.6	7.96
	6	.309	.0876	.0200	21.81	23 27.0	.2758	5 2.3	7.93
	7	.315	.0895	.0208	21.85	23 27.2	.2761	4 58.0	7.89
	8	+3.321	+0.0914	+0.0216	21.89	23 27.5	1.2765	4 53.8	+7.86
	9	.328	.0934	.0224	21.93	23 27.7	.2768	4 49.5	7.82
	10	.334	.0954	.0233	21.97	23 28.0	.2772	4 45.3	7.78
	11	.341	.0974	.0243	22.01	23 28.2	.2776	4 41.0	7.74
	12	.347	.0994	.0253	22.04	23 28.5	.2780	4 36.8	7.70
	13	.354	.1014	.0264	22.08	23 28.8	.2785	4 32.5	7.65
	14	.361	.1034	.0275	22.12	23 29.1	.2789	4 28.3	7.60
	15	.368	.1054	.0286	22.17	23 29.3	.2794	4 24.1	7.54
	16	.374	.1075	.0298	22.21	23 29.6	.2799	4 19.9	7.49
	17	.381	.1096	.0310	22.25	23 29.9	.2804	4 15.7	7.43

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	18	$+3^s.388$	+0.1117	+0.0322	22″.29	$23^h30^m.2$	1.2810	$4^h11^m.5$	+7″.37
	19	.395	.1138	.0335	22.33	23 30.5	.2815	4 7.3	7.31
	20	.402	.1160	.0348	22.38	23 30.8	.2820	4 3.1	7.25
	21	.410	.1182	.0361	22.42	23 31.1	.2826	3 59.0	7.18
	22	.417	.1204	.0375	22.46	23 31.4	.2832	3 54.8	7.11
	23	.424	.1226	.0389	22.51	23 31.7	.2837	3 50.6	7.04
	24	.432	.1249	.0403	22.56	23 32.0	.2843	3 46.5	6.97
	25	.439	.1272	.0417	22.60	23 32.4	.2849	3 42.3	6.90
	26	.447	.1295	.0432	22.65	23 32.7	.2855	3 38.2	6.82
	27	.455	.1318	.0447	22.69	23 33.0	.2862	3 34.1	6.74
	28	+3.463	+0.1341	+0 0462	22.74	23 33.3	1.2868	3 30.0	+6.66
	29	.470	.1365	0478	22.79	23 33.7	.2874	3 25.9	6.58
	30	.478	.1389	.0493	22.84	23 34.0	.2881	3 21.8	6.49
	31	.486	.1414	.0509	22.89	23 34.3	.2887	3 17.7	6.41
Novbr.	1	.495	.1439	.0524	22.94	23 34.6	.2894	3 13.6	6.32
	2	.503	.1464	.0540	22.99	23 35.0	.2900	3 9.6	6.23
	3	.511	.1490	.0556	23.04	23 35.3	.2907	3 5.5	6.14
	4	.520	.1516	.0572	23.09	23 35.6	.2913	3 1.5	6.04
	5	.528	.1542	.0588	23.15	23 35.9	.2920	2 57.5	5.94
	6	.537	.1569	.0604	23.20	23 36.3	.2926	2 53.4	5.84
	7	+3.546	+0.1596	+0.0620	23.25	23 36.6	1.2933	2 49.4	+5.74
	8	.554	.1623	.0636	23.31	23 36.9	.2940	2 45.4	5.64
	9	.563	.1650	.0652	23.36	23 37.3	.2946	2 41.4	5.54
	10	.572	.1678	.0668	23.42	23 37.6	.2953	2 37.5	5.43
	11	.581	.1706	.0684	23.47	23 37.9	.2959	2 33.5	5.33
	12	.591	.1735	.0700	23.53	23 38.2	.2965	2 29.5	5.22
	13	.600	.1764	.0715	23.59	23 38.5	.2972	2 25.6	5.10
	14	.609	.1793	.0730	23.65	23 38.9	.2978	2 21.7	4.99
	15	.619	.1822	.0745	23.71	23 39.2	.2984	2 17.7	4.88
	16	.628	.1852	.0760	23.77	23 39.5	.2990	2 13.8	4.76
	17	+3.638	+0.1882	+0.0775	23.83	23 39.8	1.2996	2 9.9	+4.64
	18	.648	.1913	.0790	23.89	23 40.1	.3002	2 6.0	4.53
	19	.658	.1944	.0805	23.95	23 40.4	.3008	2 2.1	4.41
	20	.668	.1975	.0819	24.01	23 40.7	.3013	1 58.2	4.28
	21	.678	.2006	.0833	24.08	23 41.0	.3019	1 54.4	4.16
	22	.688	.2038	.0847	24.14	23 41.3	.3025	1 50.5	4.04
	23	.698	.2070	.0860	24.20	23 41.6	.3030	1 46.6	3.91
	24	.709	.2103	.0873	24.27	23 41.9	.3035	1 42.8	3.78
	25	.719	.2136	.0886	24.34	23 42.1	.3040	1 39.0	3.66
	26	.729	.2170	.0899	24.40	23 42.4	.3045	1 35.1	3.53
	27	+3.740	+0.2203	+0.0911	24.47	23 42.7	1.3050	1 31.3	+3.40
	28	.751	.2237	.0923	24.54	23 42.9	.3055	1 27.5	3.26
	29	.761	.2271	.0935	24.61	23 43.2	.3060	1 23.6	3.13
	30	.772	.2305	.0946	24.67	23 43.4	.3064	1 19.8	3.00
Dezbr.	1	.783	.2339	.0956	24.74	23 43.7	.3068	1 16.0	2.86
	2	.794	.2374	.0966	24.81	23 43.9	.3072	1 12.2	2.73
	3	.805	.2409	.0975	24.88	23 44.2	.3076	1 8.4	2.59
	4	.816	.2444	.0984	24.95	23 44.4	.3079	1 4.7	2.46
	5	.827	.2479	.0993	25.02	23 44.6	.3083	1 0.9	2.32
	6	.838	.2515	.1001	25.09	23 44.8	.3086	0 57.1	2.18

1842

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	7	+3s.849	+0.2551	+0.1009	25″.17	23h45m.0	1.3089	0h53m.3	+2″.04
	8	.860	.2587	.1017	25.24	23 45.2	.3092	0 49.6	1.90
	9	.872	.2623	.1024	25.31	23 45.4	.3095	0 45.8	1.76
	10	.883	.2659	.1030	25.38	23 45.6	.3097	0 42.0	1.61
	11	.894	.2695	.1036	25.46	23 45.8	.3100	0 38.3	1.47
	12	.906	.2732	.1041	25.53	23 46.0	.3102	0 34.5	1.33
	13	.917	.2768	.1046	25.60	23 46.1	.3104	0 30.8	1.19
	14	.928	.2805	.1050	25.68	23 46.3	.3105	0 27.0	1.05
	15	.940	.2842	.1054	25.75	23 46.5	.3107	0 23.3	0.90
	16	.952	.2879	.1057	25.82	23 46.6	.3108	0 19.6	0.76
	17	+3.963	+0.2916	+0.1060	25.90	23 46.7	1.3109	0 15.8	+0.62
	18	.975	.2953	.1062	25.97	23 46.9	.3110	0 12.1	0.47
	19	.986	.2990	.1064	26.05	23 47.0	.3111	0 8.4	0.32
	20	3.998	.3027	.1065	26.12	23 47.1	.3111	0 4.6	0.18
	21	4.009	.3064	.1065	26.20	23 47.2	.3111	0 0.9	+0.03
	22	.021	.3102	.1065	26.27	23 47.3	.3111	23 57.2	−0.11
	23	.032	.3139	.1064	26.35	23 47.4	.3111	23 53.4	0.26
	24	.044	.3176	.1063	26.42	23 47.5	.3110	23 49.7	0.40
	25	.056	.3213	.1061	26.50	23 47.6	.3110	23 45.9	0.55
	26	.067	.3251	.1059	26.57	23 47.7	.3109	23 42.2	0.69
	27	+4.079	+0.3288	+0.1056	26.65	23 47.8	1.3108	23 38.4	−0.83
	28	.090	.3326	.1053	26.72	23 47.8	.3106	23 34.7	0.98
	29	.102	.3363	.1049	26.80	23 47.9	.3105	23 30.9	1.12
	30	.113	.3401	.1045	26.87	23 48.0	.3103	23 27.2	1.26
	31	.125	.3439	.1041	26.95	23 48.0	.3101	23 23.4	1.41

1843

Januar	1	+1s.065	−0.6473	+0.1033	7″.07	23h14m.1	1.3099	23h19m.7	−1″.55
	2	.076	.6437	.1027	7.14	23 14.6	.3096	23 15.9	1.69
	3	.087	.6401	.1020	7.22	23 15.0	.3094	23 12.1	1.83
	4	.098	.6365	.1013	7.29	23 15.5	.3091	23 8.4	1.97
	5	.109	.6329	.1006	7.36	23 15.9	.3088	23 4.6	2.11
	6	.121	.6294	.0998	7.43	23 16.2	.3085	23 0 8	2.25
	7	.132	.6258	.0989	7.50	23 16.6	.3081	22 57.0	2.39
	8	.143	.6223	.0980	7.57	23 16.9	.3078	22 53.2	2.53
	9	.154	.6187	.0970	7.64	23 17.2	.3074	22 49.4	2.67
	10	.165	.6152	.0960	7.72	23 17.5	.3070	22 45.6	2.80
	11	+1.175	−0.6117	+0.0950	7.79	23 17.7	1.3066	22 41.8	−2.94
	12	.186	.6082	.0939	7.86	23 18.0	.3062	22 38.0	3.07
	13	.197	.6047	.0928	7.93	23 18.2	.3057	22 34.1	3.21
	14	.208	.6013	.0916	7.99	23 18.4	.3052	22 30.3	3.34
	15	.218	.5978	.0904	8.06	23 18.5	.3047	22 26.5	3.47
	16	.229	.5944	.0892	8.13	23 18.7	.3043	22 22.6	3.60
	17	.239	.5910	.0879	8.20	23 18.8	.3038	22 18.7	3.73
	18	.250	.5876	.0866	8.27	23 18.9	.3033	22 14.9	3.86
	19	.260	.5842	.0853	8.34	23 19.0	.3027	22 11.0	3.99
	20	.270	.5809	.0839	8.40	23 19.1	.3022	22 7.1	4.11

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	18	$+3^s.036$	+0.0327	+0.0156	20".71	$22^h 52^m.1$	1.2739	$6^h 18^m.2$	+8".13
	19	.042	.0346	.0154	20.75	22 52.3	.2738	6 13.9	8.14
	20	.049	.0365	.0152	20.78	22 52.5	.2737	6 9.7	8.14
	21	.055	.0384	.0151	20.82	22 52.7	.2737	6 5.4	8.15
	22	.061	.0403	.0150	20.86	22 52.9	.2736	6 1.1	8.15
	23	.068	.0421	.0150	20.90	22 53.1	.2736	5 56.9	8.15
	24	.074	.0440	.0151	20.93	22 53.3	.2737	5 52.6	8.15
	25	.080	.0458	.0152	20.97	22 53.5	.2737	5 48.3	8.14
	26	.087	.0477	.0154	21.01	22 53.7	.2738	5 44.0	8.13
	27	.093	.0495	.0157	21.05	22 54.0	.2739	5 39.7	8.12
	28	+3.099	+0.0514	+0.0160	21.08	22 54.2	1.2740	5 35.4	+8.11
	29	.106	.0532	.0163	21.12	22 54.4	.2742	5 31.1	8.10
	30	.112	.0550	.0167	21.16	22 54.7	.2743	5 26.9	8.08
Oktbr.	1	.118	.0569	.0172	21.19	22 54.9	.2745	5 22.6	8.06
	2	.125	.0587	.0177	21.23	22 55.2	.2747	5 18.3	8.04
	3	.131	.0606	.0182	21.27	22 55.5	.2750	5 14.1	8.01
	4	.138	.0624	.0188	21.30	22 55.7	.2753	5 9.8	7.98
	5	.144	.0643	.0195	21.34	22 56.0	.2756	5 5.5	7.95
	6	.151	.0661	.0202	21.38	22 56.3	.2759	5 1.3	7.92
	7	.157	.0680	.0210	21.41	22 56.6	.2762	4 57.0	7.89
	8	+3.164	+0.0698	+0.0218	21.45	22 56.9	1.2765	4 52.8	+7.85
	9	.171	.0717	.0227	21.49	22 57.2	.2769	4 48.5	7.81
	10	.178	.0736	.0236	21.53	22 57.5	.2773	4 44.2	7.77
	11	.185	.0755	.0246	21.57	22 57.8	.2777	4 40.0	7.73
	12	.191	.0774	.0256	21.60	22 58.1	.2781	4 35.8	7.68
	13	.198	.0793	.0266	21.64	22 58.5	.2786	4 31.5	7.63
	14	.205	.0812	.0277	21.68	22 58.8	.2790	4 27.3	7.58
	15	.212	.0832	.0288	21.72	22 59.1	.2795	4 23.1	7.53
	16	.220	.0852	.0300	21.76	22 59.5	.2800	4 18.9	7.48
	17	.227	.0872	.0312	21.80	22 59.8	.2805	4 14.7	7.42
	18	+3.234	+0.0892	+0.0325	21.84	23 0.1	1.2811	4 10.5	+7.36
	19	.241	.0912	.0338	21.88	23 0.5	.2816	4 6.3	7.30
	20	.249	.0932	.0351	21.92	23 0.9	.2822	4 2.1	7.23
	21	.256	.0953	.0364	21.96	23 1.2	.2827	3 58.0	7.17
	22	.264	.0974	.0378	22.00	23 1.6	.2833	3 53.8	7.10
	23	.272	.0995	.0392	22.05	23 2.0	.2839	3 49.6	7.03
	24	.279	.1017	.0406	22.09	23 2.3	.2845	3 45.5	6.95
	25	.287	.1039	.0421	22.14	23 2.7	.2851	3 41.3	6.88
	26	.295	.1061	.0436	22.18	23 3.1	.2857	3 37.2	6.80
	27	.303	.1084	.0451	22.22	23 3.5	.2863	3 33.1	6.72
	28	+3.311	+0.1106	+0.0466	22.27	23 3.8	1.2869	3 29.0	+6.64
	29	.319	.1129	.0481	22.31	23 4.2	.2876	3 24.9	6.56
	30	.328	.1152	.0496	22.36	23 4.6	.2882	3 20.8	6.47
	31	.336	.1175	.0512	22.41	23 5.0	.2889	3 16.7	6.39
Novbr.	1	.344	.1199	.0528	22.46	23 5.4	.2895	3 12.7	6.30
	2	.353	.1224	.0544	22.50	23 5.8	.2902	3 8.6	6.20
	3	.362	.1248	.0560	22.55	23 6.2	.2908	3 4.5	6.11
	4	.371	.1273	.0576	22.60	23 6.6	.2915	3 0.5	6.02
	5	.379	.1298	.0592	22.65	23 7.0	.2921	2 56.5	5.92
	6	.388	.1323	.0608	22.70	23 7.4	.2928	2 52.5	5.82

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	$+3^s.398$	+0.1348	+0.0624	22".76	$23^h\ 7^m.8$	1.2934	$2^h48^m.5$	+5".72
	8	.407	.1374	.0640	22.81	23 8.2	.2941	2 44.5	5.62
	9	.416	.1401	.0656	22.86	23 8.5	.2948	2 40.5	5.51
	10	.425	.1428	.0672	22.91	23 8.9	.2954	2 36.5	5.41
	11	.435	.1455	.0688	22.97	23 9.3	.2961	2 32.5	5.30
	12	.444	.1482	.0704	23.02	23 9.7	.2967	2 28.6	5.19
	13	.454	.1509	.0719	23.08	23 10.1	.2973	2 24.6	5.08
	14	.463	.1537	.0734	23.13	23 10.5	.2979	2 20.7	4.96
	15	.473	.1565	.0749	23.19	23 10.9	.2985	2 16.8	4.85
	16	.483	.1594	.0764	23.25	23 11.3	.2991	2 12.9	4.73
	17	+3.493	+0.1623	+0.0779	23.31	23 11.6	1.2997	2 9.0	+4.62
	18	.503	.1653	.0793	23.37	23 12.0	.3003	2 5.1	4.49
	19	.513	.1683	.0808	23.43	23 12.4	.3009	2 1.2	4.37
	20	.523	.1713	.0822	23.49	23 12.8	.3015	1 57.3	4.25
	21	.534	.1744	.0836	23.55	23 13.1	.3020	1 53.4	4.13
	22	.544	.1775	.0850	23.61	23 13.5	.3026	1 49.6	4.01
	23	.555	.1806	.0863	23.67	23 13.8	.3031	1 45.7	3.88
	24	.566	.1838	.0876	23.74	23 14.2	.3037	1 41.9	3.75
	25	.576	.1870	.0889	23.80	23 14.5	.3042	1 38.0	3.62
	26	.587	.1903	.0902	23.87	23 14.9	.3047	1 34.2	3.49
	27	+3.598	+0.1935	+0.0914	23.93	23 15.2	1.3051	1 30.4	+3.36
	28	.609	.1968	.0926	24.00	23 15.6	.3056	1 26.5	3.23
	29	.620	.2001	.0937	24.06	23 15.9	.3061	1 22.7	3.10
	30	.631	.2034	.0948	24.13	23 16.2	.3065	1 18.9	2.97
Dezbr.	1	.642	.2067	.0958	24.20	23 16.5	.3069	1 15.1	2.83
	2	.653	.2101	.0968	24.27	23 16.8	.3073	1 11.3	2.70
	3	.665	.2135	.0977	24.33	23 17.1	.3077	1 7.5	2.56
	4	.676	.2170	.0986	24.40	23 17.4	.3080	1 3.7	2.42
	5	.687	.2205	.0995	24.47	23 17.7	.3084	1 0.0	2.29
	6	.699	.2240	.1003	24.54	23 18.0	.3087	0 56.2	2.15
	7	+3.710	+0.2275	+0.1011	24.61	23 18.3	1.3090	0 52.4	+2.00
	8	.722	.2310	.1018	24.68	23 18.6	.3093	0 48.6	1.86
	9	.733	.2346	.1025	24.76	23 18.8	.3095	0 44.9	1.72
	10	.745	.2382	.1031	24.83	23 19.1	.3098	0 41.1	1.58
	11	.757	.2418	.1037	24.90	23 19.4	.3100	0 37.4	1.44
	12	.768	.2455	.1042	24.97	23 19.6	.3102	0 33.6	1.30
	13	.780	.2491	.1047	25.05	23 19.8	.3104	0 29.9	1.16
	14	.792	.2528	.1051	25.12	23 20.1	.3106	0 26.1	1.01
	15	.803	.2564	1055	25.19	23 20.3	.3107	0 22.4	0.87
	16	.815	.2601	.1058	25.27	23 20.5	.3108	0 18.7	0.73
	17	+3.827	+0.2638	+0.1061	25.34	23 20.7	1.3109	0 14.9	+0.58
	18	.839	.2675	.1063	25.42	23 20.9	.3110	0 11.2	0.44
	19	.851	.2712	.1064	25.49	23 21.1	.3111	0 7.5	0.29
	20	.863	.2750	.1064	25.57	23 21.3	.3111	0 3.7	+0.14
	21	.874	.2787	.1064	25.64	23 21.5	.3111	0 0.0	0.00
	22	.886	.2825	.1064	25.72	23 21.7	.3111	23 56.2	−0.15
	23	.898	.2862	.1063	25.79	23 21.8	.3111	23 52.5	0.29
	24	.910	.2900	1062	25.87	23 22.0	.3110	23 48.8	0.44
	25	.922	.2937	1060	25.94	23 22.2	.3110	23 45.0	0.58
	26	.934	.2975	.1058	26.02	23 22.3	.3109	23 41.3	0.73

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	$+3^s.946$	+0.3012	+0.1055	26.″09	$23^h22^m.4$	1.3108	$23^h37^m.5$	−0.″87
	28	.957	.3050	.1052	26.17	23 22.6	.3106	23 33.8	1.01
	29	.969	.3088	.1048	26.24	23 22.7	.3105	23 30.0	1.16
	30	.981	.3126	.1044	26.32	23 22.8	.3103	23 26.3	1.30
	31	.992	.3164	.1040	26.39	23 22.9	.3101	23 22.5	1.44

1842

Januar	1	$+0^s.933$	−0.6303	+0.1032	7.″41	$21^h40^m.1$	1.3098	$23^h18^m.8$	−1.″58
	2	.945	.6271	.1026	7.48	21 41.4	.3096	23 15.0	1.72
	3	.956	.6240	.1019	7.54	21 42.6	.3093	23 11.2	1.87
	4	.968	.6208	.1012	7.60	21 43.8	.3090	23 7.4	2.01
	5	.979	.6177	.1004	7.67	21 45.0	.3087	23 3.7	2.15
	6	0.991	.6145	.0996	7.73	21 46.2	.3084	22 59.9	2.29
	7	1.002	.6113	.0987	7.79	21 47.3	.3080	22 56.1	2.43
	8	.013	.6081	.0978	7.86	21 48.4	.3077	22 52.3	2.56
	9	.025	.6049	.0969	7.92	21 49.4	.3073	22 48.5	2.70
	10	.036	.6017	.0959	7.99	21 50.4	.3069	22 44.7	2.84
	11	+1.047	−0.5984	+0.0948	8.05	21 51.4	1.3065	22 40.9	−2.97
	12	.058	.5952	.0937	8.12	21 52.3	.3061	22 37.0	3.11
	13	.069	.5920	.0925	8.18	21 53.2	.3056	22 33.2	3.24
	14	.080	.5888	.0913	8.24	21 54.1	.3051	22 29.4	3.37
	15	.091	.5856	.0901	8.31	21 54.9	.3046	22 25.5	3.50
	16	.102	.5824	.0888	8.37	21 55.7	.3041	22 21.7	3.63
	17	.112	.5791	.0876	8.44	21 56.5	.3036	22 17.8	3.76
	18	.123	.5759	.0863	8.50	21 57.3	.3031	22 13.9	3.89
	19	.133	.5727	.0850	8.57	21 58.0	.3026	22 10.1	4.02
	20	.144	.5695	.0836	8.63	21 58.7	.3020	22 6.2	4.14
	21	+1.154	−0.5663	+0.0822	8.70	21 59.3	1.3014	22 2.3	−4.27
	22	.164	.5632	.0807	8.76	21 59.9	.3009	21 58.4	4.39
	23	.174	.5601	.0793	8.82	22 0.5	.3003	21 54.5	4.51
	24	.184	.5570	.0778	8.88	22 1.1	.2997	21 50.5	4.63
	25	.194	.5539	.0763	8.95	22 1.7	.2991	21 46.6	4.75
	26	.204	.5508	.0748	9.01	22 2.3	.2985	21 42.6	4.87
	27	.214	.5477	.0733	9.07	22 2.8	.2979	21 38.7	4.98
	28	.224	.5447	.0717	9.13	22 3.3	.2972	21 34.7	5.10
	29	.233	.5417	.0701	9.19	22 3.8	.2966	21 30.8	5.21
	30	.243	.5387	.0685	9.25	22 4.3	.2959	21 26.8	5.32
	31	+1.252	−0.5357	+0.0669	9.31	22 4.8	1.2953	21 22.8	−5.43
Februar	1	.262	.5328	.0653	9.37	22 5.2	.2946	21 18.8	5.53
	2	.271	.5298	.0636	9.43	22 5.7	.2940	21 14.7	5.64
	3	.280	.5269	.0620	9.49	22 6.1	.2933	21 10.7	5.74
	4	.289	.5240	.0604	9.54	22 6.5	.2926	21 6.7	5.84
	5	.298	.5212	.0588	9.60	22 6.9	.2920	21 2.6	5.94
	6	.307	.5184	.0572	9.66	22 7.3	.2913	20 58.5	6.04
	7	.315	.5156	.0556	9.71	22 7.7	.2907	20 54.5	6.13
	8	.324	.5129	.0540	9.77	22 8.1	.2900	20 50.4	6.23
	9	.332	.5102	.0524	9.82	22 8.4	.2893	20 46.3	6.32

1842

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	+1.341	−0.5075	+0.0508	9.87	$22^h\ 8^m.8$	1.2887	$20^h42^m.2$	−6.41
11	.349	.5048	.0493	9.93	22 9.1	.2881	20 38.1	6.50
12	.357	.5022	.0477	9.98	22 9.5	.2874	20 33.9	6.58
13	.365	.4996	.0462	10.03	22 9.8	.2868	20 29.8	6.67
14	.373	.4971	.0447	10.08	22 10.1	.2861	20 25.6	6.75
15	.381	.4946	.0432	10.13	22 10.5	.2855	20 21.5	6.83
16	.389	.4921	.0417	10.18	22 10.8	.2849	20 17.3	6.90
17	.397	.4896	.0402	10.23	22 11.1	.2843	20 13.1	6.98
18	.404	.4871	.0387	10.28	22 11.4	.2837	20 8.9	7.05
19	.412	.4847	.0373	10.33	22 11.7	.2831	20 4.7	7.12
20	+1.420	−0.4823	+0.0359	10.38	22 12.0	1.2825	20 0.5	−7.19
21	.427	.4799	.0346	10.43	22 12.4	.2819	19 56.3	7.26
22	.434	.4776	.0333	10.47	22 12.7	.2814	19 52.1	7.32
23	.442	.4753	.0320	10.52	22 13.0	.2808	19 47.9	7.38
24	.449	.4731	.0307	10.56	22 13.3	.2803	19 43.6	7.44
25	.456	.4709	.0295	10.61	22 13.6	.2798	19 39.4	7.50
26	.463	.4687	.0283	10.65	22 13.9	.2793	19 35.1	7.56
27	.470	.4665	.0272	10.70	22 14.2	.2788	19 30.8	7.61
28	.477	.4644	.0261	10.74	22 14.6	.2784	19 26.5	7.66
März 1	.483	.4623	.0251	10.78	22 14.9	.2779	19 22.3	7.71
2	+1.490	−0.4602	+0.0241	10.82	22 15.2	1.2775	19 18.0	−7.75
3	.497	.4582	.0232	10.86	22 15.6	.2771	19 13.7	7.79
4	.504	.4562	.0223	10.90	22 15.9	.2767	19 9.4	7.83
5	.510	.4542	.0215	10.94	22 16.3	.2764	19 5.1	7.87
6	.517	.4522	.0207	10.98	22 16.6	.2761	19 0.8	7.90
7	.523	.4502	.0199	11.02	22 17.0	.2757	18 56.5	7.94
8	.530	.4483	.0192	11.06	22 17.3	.2754	18 52.1	7.97
9	.536	.4464	.0185	11.10	22 17.7	.2751	18 47.8	8.00
10	.543	.4445	.0179	11.14	22 18.1	.2749	18 43.5	8.02
11	.549	.4426	.0173	11.18	22 18.5	.2746	18 39.2	8.05
12	+1.555	−0.4408	+0.0168	11.21	22 18.9	1.2744	18 34.8	−8.07
13	.562	.4390	.0164	11.25	22 19.3	.2742	18 30.5	8.09
14	.568	.4372	.0161	11.28	22 19.7	.2741	18 26.2	8.10
15	.574	.4355	.0158	11.32	22 20.1	.2740	18 21.8	8.12
16	.580	.4337	.0155	11.35	22 20.5	.2739	18 17.5	8.13
17	.587	.4320	.0153	11.39	22 20.9	.2738	18 13.2	8.14
18	.593	.4303	.0151	11.42	22 21.4	.2737	18 8.8	8.14
19	.599	.4286	.0150	11.46	22 21.8	.2736	18 4.5	8.15
20	.605	.4270	.0150	11.49	22 22.3	.2736	18 0.2	8.15
21	.611	.4253	.0150	11.52	22 22.7	.2736	17 55.9	8.15
22	+1.618	−0.4236	+0.0151	11.56	22 23.2	1.2737	17 51.5	−8.14
23	.624	.4219	.0152	11.59	22 23.7	.2737	17 47.2	8.14
24	.630	.4202	.0154	11.62	22 24.2	.2738	17 42.9	8.13
25	.636	.4186	.0157	11.66	22 24.7	.2739	17 38.6	8.12
26	.642	.4170	.0160	11.69	22 25.3	.2741	17 34.3	8.10
27	.649	.4154	.0164	11.72	22 25.8	.2742	17 30.0	8.09
28	.655	.4138	.0168	11.76	22 26.3	.2744	17 25.7	8.07
29	.661	.4121	.0173	11.79	22 26.9	.2746	17 21.4	8.05
30	.668	.4105	.0178	11.82	22 27.4	.2748	17 17.1	8.03
31	.674	.4088	.0183	11.85	22 28.0	.2750	17 12.9	8.00

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	$+1^s.680$	−0.4072	+0.0189	11″.89	$22^h28^m.6$	1.2753	$17^h\ 8^m.6$	−7″.98
	2	.687	.4055	.0196	11.92	22 29.2	.2756	17 4.4	7.95
	3	.693	.4038	.0204	11.95	22 29.7	.2759	17 0.1	7.92
	4	.699	.4022	.0212	11.98	22 30.3	.2763	16 55.9	7.88
	5	.706	.4006	.0220	12.02	22 30.9	.2766	16 51.6	7.84
	6	.713	.3990	.0229	12.05	22 31.6	.2770	16 47.4	7.80
	7	.719	.3973	.0238	12.08	22 32.2	.2774	16 43.2	7.76
	8	.726	.3957	.0248	12.12	22 32.8	.2778	16 39.0	7.72
	9	.733	.3940	.0258	12.15	22 33.5	.2782	16 34.8	7.67
	10	.739	.3923	.0269	12.18	22 34.1	.2787	16 30.6	7.62
	11	+1.746	−0.3906	+0.0280	12.22	22 34.8	1.2792	16 26.5	−7.57
	12	.753	.3889	.0291	12.25	22 35.4	.2796	16 22.3	7.52
	13	.760	.3872	.0302	12.29	22 36.1	.2801	16 18.2	7.47
	14	.767	.3854	.0314	12.32	22 36.8	.2806	16 14.0	7.41
	15	774	.3836	.0326	12.36	22 37.5	.2811	16 9.9	7.35
	16	.781	.3818	.0339	12.39	22 38.2	.2816	16 5.8	7.29
	17	.789	.3800	.0352	12.43	22 38.9	.2822	16 1.7	7.23
	18	.796	.3782	.0365	12.47	22 39.6	.2827	15 57.6	7.16
	19	.803	.3764	.0378	12.51	22 40.3	.2833	15 53.5	7.09
	20	.811	.3745	.0392	12.54	22 41.0	.2838	15 49.5	7.02
	21	+1.818	−0.3726	+0.0406	12.58	22 41.7	1.2844	15 45.4	−6.95
	22	.826	.3707	.0420	12.62	22 42.4	.2850	15 41.4	6.88
	23	.834	.3687	.0434	12.66	22 43.1	.2856	15 37.4	6.81
	24	.842	.3667	.0449	12.70	22 43.9	.2863	15 33.3	6.73
	25	.849	.3647	.0464	12.74	22 44.6	.2869	15 29.4	6.65
	26	.857	.3626	.0479	12.78	22 45.3	.2875	15 25.4	6.57
	27	.865	.3606	.0494	12.82	22 46.0	.2881	15 21.4	6.49
	28	.873	.3585	.0509	12.86	22 46.8	.2888	15 17.4	6.40
	29	.881	.3564	.0524	12.91	22 47.5	.2894	15 13.5	6.31
	30	.890	.3542	.0540	12.95	22 48.2	.2900	15 9.6	6.23
Mai	1	+1.898	−0.3520	+0.0555	12.99	22 49.0	1.2906	15 5.6	−6.14
	2	.907	.3498	.0571	13.04	22 49.7	.2913	15 1.7	6.05
	3	.915	.3475	.0587	13.08	22 50.4	.2919	14 57.9	5.95
	4	.924	.3452	.0602	13.13	22 51.1	.2925	14 54.0	5.86
	5	.932	.3429	.0618	13.18	22 51.9	.2932	14 50.1	5.76
	6	.941	.3405	.0633	13.22	22 52.6	.2938	14 46.3	5.66
	7	.950	.3381	.0648	13.27	22 53.3	.2944	14 42.5	5.56
	8	.959	.3357	.0663	13.32	22 54.0	.2950	14 38.7	5.46
	9	.968	.3332	.0678	13.37	22 54.7	.2957	14 34.8	5.36
	10	.977	.3307	.0693	13.42	22 55.5	.2963	14 31.0	5.26
	11	+1.986	−0.3282	+0.0708	13.47	22 56.2	1.2969	14 27.2	−5.15
	12	1.996	.3256	.0723	13.52	22 56.9	.2975	14 23.5	5.04
	13	2.005	.3230	.0738	13.57	22 57.6	.2981	14 19.7	4.93
	14	.014	.3204	.0752	13.63	22 58.3	.2987	14 15.9	4.82
	15	.024	.3178	.0766	13.68	22 58.9	.2992	14 12.2	4.71
	16	.033	.3151	.0780	13.73	22 59.6	.2998	14 8.5	4.60
	17	.043	.3124	.0794	13.79	23 0.3	.3004	14 4.8	4.49
	18	.053	.3096	.0808	13.84	23 1.0	.3009	14 1.0	4.38
	19	.063	.3068	.0822	13.90	23 1.6	.3015	13 57.4	4.26
	20	.073	.3040	.0835	13.96	23 2.3	.3020	13 53.7	4.14

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	+2.083	−0.3012	+0.0848	14.″01	$23^h\ 2.^m9$	1.3025	$13^h50.^m0$	−4.″02
	22	.093	.2983	.0861	14.07	23 3.5	.3030	13 46.3	3.90
	23	.103	.2954	.0873	14.13	23 4.2	.3035	13 42.7	3.78
	24	.113	.2924	.0885	14.19	23 4.8	.3040	13 39.1	3.66
	25	.123	.2894	.0897	14.25	23 5.4	.3045	13 35.4	3.54
	26	.134	.2864	.0909	14.31	23 6.0	.3049	13 31.8	3.42
	27	.144	.2834	.0920	14.37	23 6.6	.3054	13 28.2	3.29
	28	.155	.2803	.0931	14.43	23 7.2	.3058	13 24.6	3.17
	29	.165	.2772	.0942	14.49	23 7.7	.3063	13 21.0	3.04
	30	.176	.2741	.0953	14.56	23 8.3	.3067	13 17.4	2.91
	31	+2.186	−0.2710	+0.0963	14.62	23 8.8	1.3071	13 13.8	−2.79
Juni	1	.197	.2678	.0972	14.68	23 9.4	.3074	13 10.2	2.66
	2	.208	.2646	.0981	14.75	23 9.9	.3078	13 6.7	2.53
	3	.218	.2613	.0989	14.81	23 10.4	.3081	13 3.1	2.40
	4	.229	.2581	.0997	14.88	23 10.9	.3084	12 59.6	2.27
	5	.240	.2548	.1004	14.94	23 11.4	.3087	12 56.0	2.14
	6	.251	.2515	.1011	15.01	23 11.9	.3090	12 52.4	2.01
	7	.262	.2482	.1018	15.08	23 12.3	.3093	12 48.9	1.87
	8	.273	.2449	.1025	15.14	23 12.8	.3095	12 45.4	1.74
	9	.284	.2415	.1031	15.21	23 13.2	.3098	12 41.8	1.61
	10	+2.295	−0.2381	+0.1037	15.28	23 13.7	1.3100	12 38.3	−1.47
	11	.306	.2347	.1042	15.35	23 14.1	.3102	12 34.8	1.34
	12	.317	.2313	.1046	15.41	23 14.5	.3104	12 31.3	1.21
	13	.329	.2279	.1050	15.48	23 14.9	.3105	12 27.8	1.07
	14	.340	.2245	.1053	15.55	23 15.3	.3107	12 24.3	0.94
	15	.351	.2210	.1056	15.62	23 15.7	.3108	12 20.7	0.80
	16	.362	.2175	.1059	15.69	23 16.0	.3109	12 17.2	0.67
	17	.373	.2140	.1061	15.76	23 16.4	.3110	12 13.7	0.53
	18	.384	.2105	.1063	15.83	23 16.7	.3110	12 10.2	0.40
	19	.396	.2070	.1064	15.90	23 17.0	.3111	12 6.7	0.26
	20	+2.407	−0.2035	+0.1065	15.97	23 17.4	1.3111	12 3.2	−0.12
	21	.418	.2000	.1065	16.04	23 17.7	.3111	11 59.7	+0.01
	22	.429	.1965	.1065	16.11	23 18.0	.3111	11 56.2	0.15
	23	.441	.1929	.1064	16.18	23 18.2	.3111	11 52.7	0.28
	24	.452	.1893	.1063	16.25	23 18.5	.3110	11 49.2	0.42
	25	.463	.1858	.1061	16.33	23 18.8	.3110	11 45.7	0.55
	26	.474	.1823	.1059	16.40	23 19.0	.3109	11 42.2	0.69
	27	.486	.1788	.1056	16.47	23 19.3	.3108	11 38.7	0.82
	28	.497	.1752	.1053	16.54	23 19.5	.3106	11 35.2	0.96
	29	.508	.1717	.1049	16.61	23 19.7	.3105	11 31.7	1.09
	30	+2.519	−0.1681	+0.1045	16.68	23 19.9	1.3104	11 28.2	+1.23
Juli	1	.530	.1646	.1041	16.75	23 20.1	.3102	11 24.7	1.36
	2	.541	.1610	.1036	16.82	23 20.3	.3100	11 21.2	1.49
	3	.552	.1575	.1031	16.89	23 20.5	.3098	11 17.7	1.63
	4	.563	.1540	.1025	16.96	23 20.7	.3095	11 14.1	1.76
	5	.574	.1505	.1018	17.04	23 20.8	.3093	11 10.6	1.89
	6	.585	.1470	.1011	17.11	23 21.0	.3090	11 7.1	2.03
	7	.596	.1435	.1003	17.18	23 21.1	.3087	11 3.5	2.16
	8	.607	.1400	.0995	17.24	23 21.3	.3084	11 0.0	2.29
	9	.617	.1366	.0987	17.31	23 21.4	.3081	10 56.5	2.42

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	10	$+2^s.628$	−0.1331	+0.0979	17″.38	$23^h21^m.5$	1.3077	$10^h52^m.9$	+2″.54
	11	.639	.1297	.0970	17.45	23 21.6	.3074	10 49.3	2.67
	12	.649	.1262	.0960	17.52	23 21.7	.3070	10 45.8	2.80
	13	.660	.1227	.0950	17.59	23 21.8	.3066	10 42.2	2.93
	14	.671	.1193	.0940	17.66	23 21.9	.3062	10 38.7	3.05
	15	.681	.1159	.0930	17.73	23 22.0	.3058	10 35.1	3.18
	16	.691	.1125	.0920	17.79	23 22.1	.3054	10 31.5	3.30
	17	.702	.1092	.0909	17.86	23 22.1	.3049	10 27.9	3.43
	18	.712	.1059	.0898	17.93	23 22.2	.3045	10 24.3	3.55
	19	.722	.1026	.0886	18.00	23 22.3	.3040	10 20.7	3.67
	20	+2.732	−0.0993	+0.0874	18.06	23 22.3	1.3035	10 17.0	+3.79
	21	.742	.0960	.0862	18.13	23 22.3	.3031	10 13.4	3.91
	22	.752	.0927	.0849	18.19	23 22.4	.3026	10 9.7	4.03
	23	.762	.0895	.0836	18.26	23 22.4	.3020	10 6.1	4.15
	24	.772	.0863	.0823	18.32	23 22.5	.3015	10 2.4	4.27
	25	.782	.0831	.0809	18.39	23 22.5	.3009	9 58.8	4.38
	26	.792	.0799	.0795	18.45	23 22.5	.3004	9 55.1	4.50
	27	.801	.0768	.0781	18.51	23 22.5	.2998	9 51.4	4.61
	28	.811	.0736	.0767	18.58	23 22.5	.2993	9 47.7	4.72
	29	.820	.0705	.0753	18.64	23 22.5	.2987	9 44.0	4.83
	30	+2.830	−0.0674	+0.0739	18.70	23 22.5	1.2981	9 40.3	+4.93
	31	.839	.0643	.0724	18.76	23 22.5	.2975	9 36.5	5.04
August	1	.848	.0613	.0709	18.82	23 22.5	.2969	9 32.8	5.15
	2	.857	.0583	.0694	18.88	23 22.5	.2963	9 29.0	5.26
	3	.866	.0553	.0679	18.94	23 22.5	.2957	9 25.3	5.36
	4	.875	.0524	.0664	19.00	23 22.5	.2951	9 21.5	5.46
	5	.884	.0494	.0649	19.06	23 22.5	.2945	9 17.7	5.56
	6	.893	.0465	.0634	19.12	23 22.5	.2939	9 13.9	5.66
	7	.901	.0436	.0618	19.18	23 22.5	.2932	9 10.1	5.76
	8	.910	.0408	.0603	19.23	23 22.5	.2926	9 6.3	5.85
	9	+2.918	−0.0380	+0.0587	19.29	23 22.5	1.2920	9 2.4	+5.95
	10	.927	.0352	.0572	19.35	23 22.5	.2913	8 58.6	6.04
	11	.935	.0324	.0557	19.40	23 22.5	.2907	8 54.7	6.13
	12	.943	.0297	.0542	19.46	23 22.4	.2901	8 50.8	6.22
	13	.951	.0270	.0527	19.51	23 22.4	.2895	8 46.9	6.31
	14	.960	.0243	.0512	19.56	23 22.4	.2888	8 43.0	6.39
	15	.968	.0216	.0497	19.62	23 22.4	.2882	8 39.1	6.48
	16	.975	.0190	.0482	19.67	23 22.4	.2876	8 35.2	6.56
	17	.983	.0164	.0467	19.72	23 22.4	.2870	8 31.2	6.64
	18	.991	.0138	.0452	19.77	23 22.3	.2864	8 27.3	6.72
	19	+2.999	−0.0113	+0.0437	19.82	23 22.3	1.2858	8 23.3	+6.79
	20	3.006	.0088	.0423	19.88	23 22.3	.2852	8 19.3	6.87
	21	.014	.0063	.0409	19.93	23 22.3	.2846	8 15.3	6.94
	22	.021	.0038	.0396	19.98	23 22.3	.2840	8 11.3	7.01
	23	.029	−0.0014	.0382	20.02	23 22.3	.2835	8 7.3	7.08
	24	.036	+0.0010	.0369	20.07	23 22.3	.2829	8 3.3	7.15
	25	.043	.0034	.0355	20.12	23 22.3	.2823	7 59.2	7.21
	26	.050	.0057	.0342	20.17	23 22.3	.2818	7 55.2	7.28
	27	.057	.0080	.0329	20.21	23 22.3	.2812	7 51.1	7.34
	28	.064	.0103	.0317	20.26	23 22.4	.2807	7 47.0	7.40

1842

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	29	+3s.071	+0.0126	+0.0305	20″.30	23h22m.4	1.2802	7h43m.0	+7″.45
	30	.078	.0149	.0294	20.35	23 22.4	.2797	7 38.9	7.51
	31	.085	.0171	.0283	20.39	23 22.4	.2793	7 34.8	7.56
Septbr.	1	.091	.0193	.0272	20.44	23 22.5	.2788	7 30.6	7.61
	2	.098	.0215	.0261	20.48	23 22.5	.2784	7 26.5	7.66
	3	.105	.0237	.0251	20.52	23 22.5	.2779	7 22.4	7.70
	4	.111	.0258	.0241	20.57	23 22.6	.2775	7 18.2	7.75
	5	.118	.0279	.0232	20.61	23 22.6	.2771	7 14.0	7.79
	6	.124	.0300	.0223	20.65	23 22.7	.2768	7 9.9	7.83
	7	.131	.0320	.0215	20.69	23 22.7	.2764	7 5.7	7.86
	8	+3.137	+0.0340	+0.0207	20.73	23 22.8	1.2761	7 1.5	+7.90
	9	.143	.0360	.0200	20.77	23 22.9	.2757	6 57.3	7.93
	10	.150	.0380	.0193	20.82	23 22.9	.2754	6 53.1	7.96
	11	.156	.0400	.0186	20.86	23 23.0	.2752	6 48.9	7.99
	12	.162	.0420	.0180	20.90	23 23.1	.2749	6 44.7	8.02
	13	.168	.0440	.0175	20.93	23 23.2	.2747	6 40.5	8.04
	14	.175	.0460	.0170	20.97	23 23.3	.2745	6 36.2	8.06
	15	.181	.0479	.0166	21.01	23 23.4	.2743	6 32.0	8.08
	16	.187	.0499	.0162	21.05	23 23.5	.2742	6 27.7	8.10
	17	.193	.0518	.0159	21.09	23 23.6	.2740	6 23.5	8.11
	18	+3.199	+0.0537	+0.0156	21.13	23 23.7	1.2739	6 19.2	+8.12
	19	.205	.0556	.0154	21.17	23 23.9	.2738	6 15.0	8.13
	20	.211	.0575	.0152	21.20	23 24.0	.2737	6 10.7	8.14
	21	.217	.0594	.0151	21.24	23 24.2	.2737	6 6.4	8.15
	22	.223	.0613	.0150	21.28	23 24.3	.2737	6 2.2	8.15
	23	.229	.0632	.0150	21.32	23 24.4	.2737	5 57.9	8.15
	24	.235	.0651	.0151	21.36	23 24.6	.2737	5 53.6	8.15
	25	.241	.0669	.0152	21.39	23 24.8	.2737	5 49.3	8.14
	26	.247	.0688	.0154	21.43	23 24.9	.2738	5 45.0	8.14
	27	.253	.0707	.0156	21.47	23 25.1	.2739	5 40.8	8.13
	28	+3.259	+0.0726	+0.0159	21.51	23 25.3	1.2740	5 36.5	+8.11
	29	.265	.0744	.0162	21.54	23 25.5	.2741	5 32.2	8.10
	30	.271	.0763	.0166	21.58	23 25.7	.2743	5 27.9	8.08
Oktbr.	1	.277	.0782	.0170	21.62	23 25.9	.2745	5 23.6	8.06
	2	.284	.0801	.0175	21.66	23 26.1	.2747	5 19.4	8.04
	3	.290	.0820	.0181	21.70	23 26.3	.2749	5 15.1	8.02
	4	.296	.0838	.0187	21.73	23 26.5	.2752	5 10.8	7.99
	5	.302	.0857	.0193	21.77	23 26.8	.2755	5 6.6	7.96
	6	.309	.0876	.0200	21.81	23 27.0	.2758	5 2.3	7.93
	7	.315	.0895	.0208	21.85	23 27.2	.2761	4 58.0	7.89
	8	+3.321	+0.0914	+0.0216	21.89	23 27.5	1.2765	4 53.8	+7.86
	9	.328	.0934	.0224	21.93	23 27.7	.2768	4 49.5	7.82
	10	.334	.0954	.0233	21.97	23 28.0	.2772	4 45.3	7.78
	11	.341	.0974	.0243	22.01	23 28.2	.2776	4 41.0	7.74
	12	.347	.0994	.0253	22.04	23 28.5	.2780	4 36.8	7.70
	13	.354	.1014	.0264	22.08	23 28.8	.2785	4 32.5	7.65
	14	.361	.1034	.0275	22.12	23 29.1	.2789	4 28.3	7.60
	15	.368	.1054	.0286	22.17	23 29.3	.2794	4 24.1	7.54
	16	.374	.1075	.0298	22.21	23 29.6	.2799	4 19.9	7.49
	17	.381	.1096	.0310	22.25	23 29.9	.2804	4 15.7	7.43

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	18	$+3^s.388$	+0.1117	+0.0322	22".29	$23^h30^m.2$	1.2810	$4^h11^m.5$	+7".37
	19	.395	.1138	.0335	22.33	23 30.5	.2815	4 7.3	7.31
	20	.402	.1160	.0348	22.38	23 30.8	.2820	4 3.1	7.25
	21	.410	.1182	.0361	22.42	23 31.1	.2826	3 59.0	7.18
	22	.417	.1204	.0375	22.46	23 31.4	.2832	3 54.8	7.11
	23	.424	.1226	.0389	22.51	23 31.7	.2837	3 50.6	7.04
	24	.432	.1249	.0403	22.56	23 32.0	.2843	3 46.5	6.97
	25	.439	.1272	.0417	22.60	23 32.4	.2849	3 42.3	6.90
	26	.447	.1295	.0432	22.65	23 32.7	.2855	3 38.2	6.82
	27	.455	.1318	.0447	22.69	23 33.0	.2862	3 34.1	6.74
	28	+3.463	+0.1341	+0 0462	22.74	23 33.3	1.2868	3 30.0	+6.66
	29	.470	.1365	0478	22.79	23 33.7	.2874	3 25.9	6.58
	30	.478	.1389	.0493	22.84	23 34.0	.2881	3 21.8	6.49
	31	.486	.1414	.0509	22.89	23 34.3	.2887	3 17.7	6.41
Novbr.	1	.495	.1439	.0524	22.94	23 34.6	.2894	3 13.6	6.32
	2	.503	.1464	.0540	22.99	23 35.0	.2900	3 9.6	6.23
	3	.511	.1490	.0556	23.04	23 35.3	.2907	3 5.5	6.14
	4	.520	.1516	.0572	23.09	23 35.6	.2913	3 1.5	6.04
	5	.528	.1542	.0588	23.15	23 35.9	.2920	2 57.5	5.94
	6	.537	.1569	.0604	23.20	23 36.3	.2926	2 53.4	5.84
	7	+3.546	+0.1596	+0.0620	23.25	23 36.6	1.2933	2 49.4	+5.74
	8	.554	.1623	.0636	23.31	23 36.9	.2940	2 45.4	5.64
	9	.563	.1650	.0652	23.36	23 37.3	.2946	2 41.4	5.54
	10	.572	.1678	.0668	23.42	23 37.6	.2953	2 37.5	5.43
	11	.581	.1706	.0684	23.47	23 37.9	.2959	2 33.5	5.33
	12	.591	.1735	.0700	23.53	23 38.2	.2965	2 29.5	5.22
	13	.600	.1764	.0715	23.59	23 38.5	.2972	2 25.6	5.10
	14	.609	.1793	.0730	23.65	23 38.9	.2978	2 21.7	4.99
	15	.619	.1822	.0745	23.71	23 39.2	.2984	2 17.7	4.88
	16	.628	.1852	.0760	23.77	23 39.5	.2990	2 13.8	4.76
	17	+3.638	+0.1882	+0.0775	23.83	23 39.8	1.2996	2 9.9	+4.64
	18	.648	.1913	.0790	23.89	23 40.1	.3002	2 6.0	4.53
	19	.658	.1944	.0805	23.95	23 40.4	.3008	2 2.1	4.41
	20	.668	.1975	.0819	24.01	23 40.7	.3013	1 58.2	4.28
	21	.678	.2006	.0833	24.08	23 41.0	.3019	1 54.4	4.16
	22	.688	.2038	.0847	24.14	23 41.3	.3025	1 50.5	4.04
	23	.698	.2070	.0860	24.20	23 41.6	.3030	1 46.6	3.91
	24	.709	.2103	.0873	24.27	23 41.9	.3035	1 42.8	3.78
	25	.719	.2136	.0886	24.34	23 42.1	.3040	1 39.0	3.66
	26	.729	.2170	.0899	24.40	23 42.4	.3045	1 35.1	3.53
	27	+3.740	+0.2203	+0.0911	24.47	23 42.7	1.3050	1 31.3	+3.40
	28	.751	.2237	.0923	24.54	23 42.9	.3055	1 27.5	3.26
	29	.761	.2271	.0935	24.61	23 43.2	.3060	1 23.6	3.13
	30	.772	.2305	.0946	24.67	23 43.4	.3064	1 19.8	3.00
Dezbr.	1	.783	.2339	.0956	24.74	23 43.7	.3068	1 16.0	2.86
	2	.794	.2374	.0966	24.81	23 43.9	.3072	1 12.2	2.73
	3	.805	.2409	.0975	24.88	23 44.2	.3076	1 8.4	2.59
	4	.816	.2444	.0984	24.95	23 44.4	.3079	1 4.7	2.46
	5	.827	.2479	.0993	25.02	23 44.6	.3083	1 0.9	2.32
	6	.838	.2515	.1001	25.09	23 44.8	.3086	0 57.1	2.18

1842

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	7	+3s.849	+0.2551	+0.1009	25″.17	23h45m.0	1.3089	0h53m.3	+2″.04
	8	.860	.2587	.1017	25.24	23 45.2	.3092	0 49.6	1.90
	9	.872	.2623	.1024	25.31	23 45.4	.3095	0 45.8	1.76
	10	.883	.2659	.1030	25.38	23 45.6	.3097	0 42.0	1.61
	11	.894	.2695	.1036	25.46	23 45.8	.3100	0 38.3	1.47
	12	.906	.2732	.1041	25.53	23 46.0	.3102	0 34.5	1.33
	13	.917	.2768	.1046	25.60	23 46.1	.3104	0 30.8	1.19
	14	.928	.2805	.1050	25.68	23 46.3	.3105	0 27.0	1.05
	15	.940	.2842	.1054	25.75	23 46.5	.3107	0 23.3	0.90
	16	.952	.2879	.1057	25.82	23 46.6	.3108	0 19.6	0.76
	17	+3.963	+0.2916	+0.1060	25.90	23 46.7	1.3109	0 15.8	+0.62
	18	.975	.2953	.1062	25.97	23 46.9	.3110	0 12.1	0.47
	19	.986	.2990	.1064	26.05	23 47.0	.3111	0 8.4	0.32
	20	3.998	.3027	.1065	26.12	23 47.1	.3111	0 4.6	0.18
	21	4.009	.3064	.1065	26.20	23 47.2	.3111	0 0.9	+0.03
	22	.021	.3102	.1065	26.27	23 47.3	.3111	23 57.2	−0.11
	23	.032	.3139	.1064	26.35	23 47.4	.3111	23 53.4	0.26
	24	.044	.3176	.1063	26.42	23 47.5	.3110	23 49.7	0.40
	25	.056	.3213	.1061	26.50	23 47.6	.3110	23 45.9	0.55
	26	.067	.3251	.1059	26.57	23 47.7	.3109	23 42.2	0.69
	27	+4.079	+0.3288	+0.1056	26.65	23 47.8	1.3108	23 38.4	−0.83
	28	.090	.3326	.1053	26.72	23 47.8	.3106	23 34.7	0.98
	29	.102	.3363	.1049	26.80	23 47.9	.3105	23 30.9	1.12
	30	.113	.3401	.1045	26.87	23 48.0	.3103	23 27.2	1.26
	31	.125	.3439	.1041	26.95	23 48.0	.3101	23 23.4	1.41

1843

Januar	1	+1s.065	−0.6473	+0.1033	7″.07	23h14m.1	1.3099	23h19m.7	−1″.55
	2	.076	.6437	.1027	7.14	23 14.6	.3096	23 15.9	1.69
	3	.087	.6401	.1020	7.22	23 15.0	.3094	23 12.1	1.83
	4	.098	.6365	.1013	7.29	23 15.5	.3091	23 8.4	1.97
	5	.109	.6329	.1006	7.36	23 15.9	.3088	23 4.6	2.11
	6	.121	.6294	.0998	7.43	23 16.2	.3085	23 0.8	2.25
	7	.132	.6258	.0989	7.50	23 16.6	.3081	22 57.0	2.39
	8	.143	.6223	.0980	7.57	23 16.9	.3078	22 53.2	2.53
	9	.154	.6187	.0970	7.64	23 17.2	.3074	22 49.4	2.67
	10	.165	.6152	.0960	7.72	23 17.5	.3070	22 45.6	2.80
	11	+1.175	−0.6117	+0.0950	7.79	23 17.7	1.3066	22 41.8	−2.94
	12	.186	.6082	.0939	7.86	23 18.0	.3062	22 38.0	3.07
	13	.197	.6047	.0928	7.93	23 18.2	.3057	22 34.1	3.21
	14	.208	.6013	.0916	7.99	23 18.4	.3052	22 30.3	3.34
	15	.218	.5978	.0904	8.06	23 18.5	.3047	22 26.5	3.47
	16	.229	.5944	.0892	8.13	23 18.7	.3043	22 22.6	3.60
	17	.239	.5910	.0879	8.20	23 18.8	.3038	22 18.7	3.73
	18	.250	.5876	.0866	8.27	23 18.9	.3033	22 14.9	3.86
	19	.260	.5842	.0853	8.34	23 19.0	.3027	22 11.0	3.99
	20	.270	.5809	.0839	8.40	23 19.1	.3022	22 7.1	4.11

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	18	$+3^s.036$	+0.0327	+0.0156	20″.71	$22^h 52^m.1$	1.2739	$6^h 18^m.2$	+8″.13
	19	.042	.0346	.0154	20.75	22 52.3	.2738	6 13.9	8.14
	20	.049	.0365	.0152	20.78	22 52.5	.2737	6 9.7	8.14
	21	.055	.0384	.0151	20.82	22 52.7	.2737	6 5.4	8.15
	22	.061	.0403	.0150	20.86	22 52.9	.2736	6 1.1	8.15
	23	.068	.0421	.0150	20.90	22 53.1	.2736	5 56.9	8.15
	24	.074	.0440	.0151	20.93	22 53.3	.2737	5 52.6	8.15
	25	.080	.0458	.0152	20.97	22 53.5	.2737	5 48.3	8.14
	26	.087	.0477	.0154	21.01	22 53.7	.2738	5 44.0	8.13
	27	.093	.0495	.0157	21.05	22 54.0	.2739	5 39.7	8.12
	28	+3.099	+0.0514	+0.0160	21.08	22 54.2	1.2740	5 35.4	+8.11
	29	.106	.0532	.0163	21.12	22 54.4	.2742	5 31.1	8.10
	30	.112	.0550	.0167	21.16	22 54.7	.2743	5 26.9	8.08
Oktbr.	1	.118	.0569	.0172	21.19	22 54.9	.2745	5 22.6	8.06
	2	.125	.0587	.0177	21.23	22 55.2	.2747	5 18.3	8.04
	3	.131	.0606	.0182	21.27	22 55.5	.2750	5 14.1	8.01
	4	.138	.0624	.0188	21.30	22 55.7	.2753	5 9.8	7.98
	5	.144	.0643	.0195	21.34	22 56.0	.2756	5 5.5	7.95
	6	.151	.0661	.0202	21.38	22 56.3	.2759	5 1.3	7.92
	7	.157	.0680	.0210	21.41	22 56.6	.2762	4 57.0	7.89
	8	+3.164	+0.0698	+0.0218	21.45	22 56.9	1.2765	4 52.8	+7.85
	9	.171	.0717	.0227	21.49	22 57.2	.2769	4 48.5	7.81
	10	.178	.0736	.0236	21.53	22 57.5	.2773	4 44.2	7.77
	11	.185	.0755	.0246	21.57	22 57.8	.2777	4 40.0	7.73
	12	.191	.0774	.0256	21.60	22 58.1	.2781	4 35.8	7.68
	13	.198	.0793	.0266	21.64	22 58.5	.2786	4 31.5	7.63
	14	.205	.0812	.0277	21.68	22 58.8	.2790	4 27.3	7.58
	15	.212	.0832	.0288	21.72	22 59.1	.2795	4 23.1	7.53
	16	.220	.0852	.0300	21.76	22 59.5	.2800	4 18.9	7.48
	17	.227	.0872	.0312	21.80	22 59.8	.2805	4 14.7	7.42
	18	+3.234	+0.0892	+0.0325	21.84	23 0.1	1.2811	4 10.5	+7.36
	19	.241	.0912	.0338	21.88	23 0.5	.2816	4 6.3	7.30
	20	.249	.0932	.0351	21.92	23 0.9	.2822	4 2.1	7.23
	21	.256	.0953	.0364	21.96	23 1.2	.2827	3 58.0	7.17
	22	.264	.0974	.0378	22.00	23 1.6	.2833	3 53.8	7.10
	23	.272	.0995	.0392	22.05	23 2.0	.2839	3 49.6	7.03
	24	.279	.1017	.0406	22.09	23 2.3	.2845	3 45.5	6.95
	25	.287	.1039	.0421	22.14	23 2.7	.2851	3 41.3	6.88
	26	.295	.1061	.0436	22.18	23 3.1	.2857	3 37.2	6.80
	27	.303	.1084	.0451	22.22	23 3.5	.2863	3 33.1	6.72
	28	+3.311	+0.1106	+0.0466	22.27	23 3.8	1.2869	3 29.0	+6.64
	29	.319	.1129	.0481	22.31	23 4.2	.2876	3 24.9	6.56
	30	.328	.1152	.0496	22.36	23 4.6	.2882	3 20.8	6.47
	31	.336	.1175	.0512	22.41	23 5.0	.2889	3 16.7	6.39
Novbr.	1	.344	.1199	.0528	22.46	23 5.4	.2895	3 12.7	6.30
	2	.353	.1224	.0544	22.50	23 5.8	.2902	3 8.6	6.20
	3	.362	.1248	.0560	22.55	23 6.2	.2908	3 4.5	6.11
	4	.371	.1273	.0576	22.60	23 6.6	.2915	3 0.5	6.02
	5	.379	.1298	.0592	22.65	23 7.0	.2921	2 56.5	5.92
	6	.388	.1323	.0608	22.70	23 7.4	.2928	2 52.5	5.82

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	+3ˢ.398	+0.1348	+0.0624	22″.76	$23^h\ 7^m.8$	1.2934	$2^h48^m.5$	+5″.72
	8	.407	.1374	.0640	22.81	23 8.2	.2941	2 44.5	5.62
	9	.416	.1401	.0656	22.86	23 8.5	.2948	2 40.5	5.51
	10	.425	.1428	.0672	22.91	23 8.9	.2954	2 36.5	5.41
	11	.435	.1455	.0688	22.97	23 9.3	.2961	2 32.5	5.30
	12	.444	.1482	.0704	23.02	23 9.7	.2967	2 28.6	5.19
	13	.454	.1509	.0719	23.08	23 10.1	.2973	2 24.6	5.08
	14	.463	.1537	.0734	23.13	23 10.5	.2979	2 20.7	4.96
	15	.473	.1565	.0749	23.19	23 10.9	.2985	2 16.8	4.85
	16	.483	.1594	.0764	23.25	23 11.3	.2991	2 12.9	4.73
	17	+3.493	+0.1623	+0.0779	23.31	23 11.6	1.2997	2 9.0	+4.62
	18	.503	.1653	.0793	23.37	23 12.0	.3003	2 5.1	4.49
	19	.513	.1683	.0808	23.43	23 12.4	.3009	2 1.2	4.37
	20	.523	.1713	.0822	23.49	23 12.8	.3015	1 57.3	4.25
	21	.534	.1744	.0836	23.55	23 13.1	.3020	1 53.4	4.13
	22	.544	.1775	.0850	23.61	23 13.5	.3026	1 49.6	4.01
	23	.555	.1806	.0863	23.67	23 13.8	.3031	1 45.7	3.88
	24	.566	.1838	.0876	23.74	23 14.2	.3037	1 41.9	3.75
	25	.576	.1870	.0889	23.80	23 14.5	.3042	1 38.0	3.62
	26	.587	.1903	.0902	23.87	23 14.9	.3047	1 34.2	3.49
	27	+3.598	+0.1935	+0.0914	23.93	23 15.2	1.3051	1 30.4	+3.36
	28	.609	.1968	.0926	24.00	23 15.6	.3056	1 26.5	3.23
	29	.620	.2001	.0937	24.06	23 15.9	.3061	1 22.7	3.10
	30	.631	.2034	.0948	24.13	23 16.2	.3065	1 18.9	2.97
Dezbr.	1	.642	.2067	.0958	24.20	23 16.5	.3069	1 15.1	2.83
	2	.653	.2101	.0968	24.27	23 16.8	.3073	1 11.3	2.70
	3	.665	.2135	.0977	24.33	23 17.1	.3077	1 7.5	2.56
	4	.676	.2170	.0986	24.40	23 17.4	.3080	1 3.7	2.42
	5	.687	.2205	.0995	24.47	23 17.7	.3084	1 0.0	2.29
	6	.699	.2240	.1003	24.54	23 18.0	.3087	0 56.2	2.15
	7	+3.710	+0.2275	+0.1011	24.61	23 18.3	1.3090	0 52.4	+2.00
	8	.722	.2310	.1018	24.68	23 18.6	.3093	0 48.6	1.86
	9	.733	.2346	.1025	24.76	23 18.8	.3095	0 44.9	1.72
	10	.745	.2382	.1031	24.83	23 19.1	.3098	0 41.1	1.58
	11	.757	.2418	.1037	24.90	23 19.4	.3100	0 37.4	1.44
	12	.768	.2455	.1042	24.97	23 19.6	.3102	0 33.6	1.30
	13	.780	.2491	.1047	25.05	23 19.8	.3104	0 29.9	1.16
	14	.792	.2528	.1051	25.12	23 20.1	.3106	0 26.1	1.01
	15	.803	.2564	1055	25.19	23 20.3	.3107	0 22.4	0.87
	16	.815	.2601	.1058	25.27	23 20.5	.3108	0 18.7	0.73
	17	+3.827	+0.2638	+0.1061	25.34	23 20.7	1.3109	0 14.9	+0.58
	18	.839	.2675	.1063	25.42	23 20.9	.3110	0 11.2	0.44
	19	.851	.2712	.1064	25.49	23 21.1	.3111	0 7.5	0.29
	20	.863	.2750	.1064	25.57	23 21.3	.3111	0 3.7	+0.14
	21	.874	.2787	.1064	25.64	23 21.5	.3111	0 0.0	0.00
	22	.886	.2825	.1064	25.72	23 21.7	.3111	23 56.2	−0.15
	23	.898	.2862	.1063	25.79	23 21.8	.3111	23 52.5	0.29
	24	.910	.2900	1062	25.87	23 22.0	.3110	23 48.8	0.44
	25	.922	.2937	1060	25.94	23 22.2	.3110	23 45.0	0.58
	26	.934	.2975	.1058	26.02	23 22.3	.3109	23 41.3	0.73

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	$+3^s.946$	+0.3012	+0.1055	26″.09	$23^h22^m.4$	1.3108	$23^h37^m.5$	−0″.87
	28	.957	.3050	.1052	26.17	23 22.6	.3106	23 33.8	1.01
	29	.969	.3088	.1048	26.24	23 22.7	.3105	23 30.0	1.16
	30	.981	.3126	.1044	26.32	23 22.8	.3103	23 26.3	1.30
	31	.992	.3164	.1040	26.39	23 22.9	.3101	23 22.5	1.44

1842

Januar	1	$+0^s.933$	−0.6303	+0.1032	7″.41	$21^h40^m.1$	1.3098	$23^h18^m.8$	−1″.58
	2	.945	.6271	.1026	7.48	21 41.4	.3096	23 15.0	1.72
	3	.956	.6240	.1019	7.54	21 42.6	.3093	23 11.2	1.87
	4	.968	.6208	.1012	7.60	21 43.8	.3090	23 7.4	2.01
	5	.979	.6177	.1004	7.67	21 45.0	.3087	23 3.7	2.15
	6	0.991	.6145	.0996	7.73	21 46.2	.3084	22 59.9	2.29
	7	1.002	.6113	.0987	7.79	21 47.3	.3080	22 56.1	2.43
	8	.013	.6081	.0978	7.86	21 48.4	.3077	22 52.3	2.56
	9	.025	.6049	.0969	7.92	21 49.4	.3073	22 48.5	2.70
	10	.036	.6017	.0959	7.99	21 50.4	.3069	22 44.7	2.84
	11	+1.047	−0.5984	+0.0948	8.05	21 51.4	1.3065	22 40.9	−2.97
	12	.058	.5952	.0937	8.12	21 52.3	.3061	22 37.0	3.11
	13	.069	.5920	.0925	8.18	21 53.2	.3056	22 33.2	3.24
	14	.080	.5888	.0913	8.24	21 54.1	.3051	22 29.4	3.37
	15	.091	.5856	.0901	8.31	21 54.9	.3046	22 25.5	3.50
	16	.102	.5824	.0888	8.37	21 55.7	.3041	22 21.7	3.63
	17	.112	.5791	.0876	8.44	21 56.5	.3036	22 17.8	3.76
	18	.123	.5759	.0863	8.50	21 57.3	.3031	22 13.9	3.89
	19	.133	.5727	.0850	8.57	21 58.0	.3026	22 10.1	4.02
	20	.144	.5695	.0836	8.63	21 58.7	.3020	22 6.2	4.14
	21	+1.154	−0.5663	+0.0822	8.70	21 59.3	1.3014	22 2.3	−4.27
	22	.164	.5632	.0807	8.76	21 59.9	.3009	21 58.4	4.39
	23	.174	.5601	.0793	8.82	22 0.5	.3003	21 54.5	4.51
	24	.184	.5570	.0778	8.88	22 1.1	.2997	21 50.5	4.63
	25	.194	.5539	.0763	8.95	22 1.7	.2991	21 46.6	4.75
	26	.204	.5508	.0748	9.01	22 2.3	.2985	21 42.6	4.87
	27	.214	.5477	.0733	9.07	22 2.8	.2979	21 38.7	4.98
	28	.224	.5447	.0717	9.13	22 3.3	.2972	21 34.7	5.10
	29	.233	.5417	.0701	9.19	22 3.8	.2966	21 30.8	5.21
	30	.243	.5387	.0685	9.25	22 4.3	.2959	21 26.8	5.32
	31	+1.252	−0.5357	+0.0669	9.31	22 4.8	1.2953	21 22.8	−5.43
Februar	1	.262	.5328	.0653	9.37	22 5.2	.2946	21 18.8	5.53
	2	.271	.5298	.0636	9.43	22 5.7	.2940	21 14.7	5.64
	3	.280	.5269	.0620	9.49	22 6.1	.2933	21 10.7	5.74
	4	.289	.5240	.0604	9.54	22 6.5	.2926	21 6.7	5.84
	5	.298	.5212	.0588	9.60	22 6.9	.2920	21 2.6	5.94
	6	.307	.5184	.0572	9.66	22 7.3	.2913	20 58.5	6.04
	7	.315	.5156	.0556	9.71	22 7.7	.2907	20 54.5	6.13
	8	.324	.5129	.0540	9.77	22 8.1	.2900	20 50.4	6.23
	9	.332	.5102	.0524	9.82	22 8.4	.2893	20 46.3	6.32

1842

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	$+1^s.341$	−0.5075	+0.0508	9″.87	$22^h\ 8^m.8$	1.2887	$20^h42^m.2$	−6″.41
11	.349	.5048	.0493	9.93	22 9.1	.2881	20 38.1	6.50
12	.357	.5022	.0477	9.98	22 9.5	.2874	20 33.9	6.58
13	.365	.4996	.0462	10.03	22 9.8	.2868	20 29.8	6.67
14	.373	.4971	.0447	10.08	22 10.1	.2861	20 25.6	6.75
15	.381	.4946	.0432	10.13	22 10.5	.2855	20 21.5	6.83
16	.389	.4921	.0417	10.18	22 10.8	.2849	20 17.3	6.90
17	.397	.4896	.0402	10.23	22 11.1	.2843	20 13.1	6.98
18	.404	.4871	.0387	10.28	22 11.4	.2837	20 8.9	7.05
19	.412	.4847	.0373	10.33	22 11.7	.2831	20 4.7	7.12
20	+1.420	−0.4823	+0.0359	10.38	22 12.0	1.2825	20 0.5	−7.19
21	.427	.4799	.0346	10.43	22 12.4	.2819	19 56.3	7.26
22	.434	.4776	.0333	10.47	22 12.7	.2814	19 52.1	7.32
23	.442	.4753	.0320	10.52	22 13.0	.2808	19 47.9	7.38
24	.449	.4731	.0307	10.56	22 13.3	.2803	19 43.6	7.44
25	.456	.4709	.0295	10.61	22 13.6	.2798	19 39.4	7.50
26	.463	.4687	.0283	10.65	22 13.9	.2793	19 35.1	7.56
27	.470	.4665	.0272	10.70	22 14.2	.2788	19 30.8	7.61
28	.477	.4644	.0261	10.74	22 14.6	.2784	19 26.5	7.66
März 1	.483	.4623	.0251	10.78	22 14.9	.2779	19 22.3	7.71
2	+1.490	−0.4602	+0.0241	10.82	22 15.2	1.2775	19 18.0	−7.75
3	.497	.4582	.0232	10.86	22 15.6	.2771	19 13.7	7.79
4	.504	.4562	.0223	10.90	22 15.9	.2767	19 9.4	7.83
5	.510	.4542	.0215	10.94	22 16.3	.2764	19 5.1	7.87
6	.517	.4522	.0207	10.98	22 16.6	.2761	19 0.8	7.90
7	.523	.4502	.0199	11.02	22 17.0	.2757	18 56.5	7.94
8	.530	.4483	.0192	11.06	22 17.3	.2754	18 52.1	7.97
9	.536	.4464	.0185	11.10	22 17.7	.2751	18 47.8	8.00
10	.543	.4445	.0179	11.14	22 18.1	.2749	18 43.5	8.02
11	.549	.4426	.0173	11.18	22 18.5	.2746	18 39.2	8.05
12	+1.555	−0.4408	+0.0168	11.21	22 18.9	1.2744	18 34.8	−8.07
13	.562	.4390	.0164	11.25	22 19.3	.2742	18 30.5	8.09
14	.568	.4372	.0161	11.28	22 19.7	.2741	18 26.2	8.10
15	.574	.4355	.0158	11.32	22 20.1	.2740	18 21.8	8.12
16	.580	.4337	.0155	11.35	22 20.5	.2739	18 17.5	8.13
17	.587	.4320	.0153	11.39	22 20.9	.2738	18 13.2	8.14
18	.593	.4303	.0151	11.42	22 21.4	.2737	18 8.8	8.14
19	.599	.4286	.0150	11.46	22 21.8	.2736	18 4.5	8.15
20	.605	.4270	.0150	11.49	22 22.3	.2736	18 0.2	8.15
21	.611	.4253	.0150	11.52	22 22.7	.2736	17 55.9	8.15
22	+1.618	−0.4236	+0.0151	11.56	22 23.2	1.2737	17 51.5	−8.14
23	.624	.4219	.0152	11.59	22 23.7	.2737	17 47.2	8.14
24	.630	.4202	.0154	11.62	22 24.2	.2738	17 42.9	8.13
25	.636	.4186	.0157	11.66	22 24.7	.2739	17 38.6	8.12
26	.642	.4170	.0160	11.69	22 25.3	.2741	17 34.3	8.10
27	.649	.4154	.0164	11.72	22 25.8	.2742	17 30.0	8.09
28	.655	.4138	.0168	11.76	22 26.3	.2744	17 25.7	8.07
29	.661	.4121	.0173	11.79	22 26.9	.2746	17 21.4	8.05
30	.668	.4105	.0178	11.82	22 27.4	.2748	17 17.1	8.03
31	.674	.4088	.0183	11.85	22 28.0	.2750	17 12.9	8.00

1842

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	+1.s680	−0.4072	+0.0189	11.″89	22h28m.6	1.2753	17h 8m.6	−7.″98
	2	.687	.4055	.0196	11.92	22 29.2	.2756	17 4.4	7.95
	3	.693	.4038	.0204	11.95	22 29.7	.2759	17 0.1	7.92
	4	.699	.4022	.0212	11.98	22 30.3	.2763	16 55.9	7.88
	5	.706	.4006	.0220	12.02	22 30.9	.2766	16 51.6	7.84
	6	.713	.3990	.0229	12.05	22 31.6	.2770	16 47.4	7.80
	7	.719	.3973	.0238	12.08	22 32.2	.2774	16 43.2	7.76
	8	.726	.3957	.0248	12.12	22 32.8	.2778	16 39.0	7.72
	9	.733	.3940	.0258	12.15	22 33.5	.2782	16 34.8	7.67
	10	.739	.3923	.0269	12.18	22 34.1	.2787	16 30.6	7.62
	11	+1.746	−0.3906	+0.0280	12.22	22 34.8	1.2792	16 26.5	−7.57
	12	.753	.3889	.0291	12.25	22 35.4	.2796	16 22.3	7.52
	13	.760	.3872	.0302	12.29	22 36.1	.2801	16 18.2	7.47
	14	.767	.3854	.0314	12.32	22 36.8	.2806	16 14.0	7.41
	15	.774	.3836	.0326	12.36	22 37.5	.2811	16 9.9	7.35
	16	.781	.3818	.0339	12.39	22 38.2	.2816	16 5.8	7.29
	17	.789	.3800	.0352	12.43	22 38.9	.2822	16 1.7	7.23
	18	.796	.3782	.0365	12.47	22 39.6	.2827	15 57.6	7.16
	19	.803	.3764	.0378	12.51	22 40.3	.2833	15 53.5	7.09
	20	.811	.3745	.0392	12.54	22 41.0	.2838	15 49.5	7.02
	21	+1.818	−0.3726	+0.0406	12.58	22 41.7	1.2844	15 45.4	−6.95
	22	.826	.3707	.0420	12.62	22 42.4	.2850	15 41.4	6.88
	23	.834	.3687	.0434	12.66	22 43.1	.2856	15 37.4	6.81
	24	.842	.3667	.0449	12.70	22 43.9	.2863	15 33.3	6.73
	25	.849	.3647	.0464	12.74	22 44.6	.2869	15 29.4	6.65
	26	.857	.3626	.0479	12.78	22 45.3	.2875	15 25.4	6.57
	27	.865	.3606	.0494	12.82	22 46.0	.2881	15 21.4	6.49
	28	.873	.3585	.0509	12.86	22 46.8	.2888	15 17.4	6.40
	29	.881	.3564	.0524	12.91	22 47.5	.2894	15 13.5	6.31
	30	.890	.3542	.0540	12.95	22 48.2	.2900	15 9.6	6.23
Mai	1	+1.898	−0.3520	+0.0555	12.99	22 49.0	1.2906	15 5.6	−6.14
	2	.907	.3498	.0571	13.04	22 49.7	.2913	15 1.7	6.05
	3	.915	.3475	.0587	13.08	22 50.4	.2919	14 57.9	5.95
	4	.924	.3452	.0602	13.13	22 51.1	.2925	14 54.0	5.86
	5	.932	.3429	.0618	13.18	22 51.9	.2932	14 50.1	5.76
	6	.941	.3405	.0633	13.22	22 52.6	.2938	14 46.3	5.66
	7	.950	.3381	.0648	13.27	22 53.3	.2944	14 42.5	5.56
	8	.959	.3357	.0663	13.32	22 54.0	.2950	14 38.7	5.46
	9	.968	.3332	.0678	13.37	22 54.7	.2957	14 34.8	5.36
	10	.977	.3307	.0693	13.42	22 55.5	.2963	14 31.0	5.26
	11	+1.986	−0.3282	+0.0708	13.47	22 56.2	1.2969	14 27.2	−5.15
	12	1.996	.3256	.0723	13.52	22 56.9	.2975	14 23.5	5.04
	13	2.005	.3230	.0738	13.57	22 57.6	.2981	14 19.7	4.93
	14	.014	.3204	.0752	13.63	22 58.3	.2987	14 15.9	4.82
	15	.024	.3178	.0766	13.68	22 58.9	.2992	14 12.2	4.71
	16	.033	.3151	.0780	13.73	22 59.6	.2998	14 8.5	4.60
	17	.043	.3124	.0794	13.79	23 0.3	.3004	14 4.8	4.49
	18	.053	.3096	.0808	13.84	23 1.0	.3009	14 1.0	4.38
	19	.063	.3068	.0822	13.90	23 1.6	.3015	13 57.4	4.26
	20	.073	.3040	.0835	13.96	23 2.3	.3020	13 53.7	4.14

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	+2.083	−0.3012	+0.0848	14.″01	$23^h\ 2^m.9$	1.3025	$13^h 50^m.0$	−4.″02
	22	.093	.2983	.0861	14.07	23 3.5	.3030	13 46.3	3.90
	23	.103	.2954	.0873	14.13	23 4.2	.3035	13 42.7	3.78
	24	.113	.2924	.0885	14.19	23 4.8	.3040	13 39.1	3.66
	25	.123	.2894	.0897	14.25	23 5.4	.3045	13 35.4	3.54
	26	.134	.2864	.0909	14.31	23 6.0	.3049	13 31.8	3.42
	27	.144	.2834	.0920	14.37	23 6.6	.3054	13 28.2	3.29
	28	.155	.2803	.0931	14.43	23 7.2	.3058	13 24.6	3.17
	29	.165	.2772	.0942	14.49	23 7.7	.3063	13 21.0	3.04
	30	.176	.2741	.0953	14.56	23 8.3	.3067	13 17.4	2.91
	31	+2.186	−0.2710	+0.0963	14.62	23 8.8	1.3071	13 13.8	−2.79
Juni	1	.197	.2678	.0972	14.68	23 9.4	.3074	13 10.2	2.66
	2	.208	.2646	.0981	14.75	23 9.9	.3078	13 6.7	2.53
	3	.218	.2613	.0989	14.81	23 10.4	.3081	13 3.1	2.40
	4	.229	.2581	.0997	14.88	23 10.9	.3084	12 59.6	2.27
	5	.240	.2548	.1004	14.94	23 11.4	.3087	12 56.0	2.14
	6	.251	.2515	.1011	15.01	23 11.9	.3090	12 52.4	2.01
	7	.262	.2482	.1018	15.08	23 12.3	.3093	12 48.9	1.87
	8	.273	.2449	.1025	15.14	23 12.8	.3095	12 45.4	1.74
	9	.284	.2415	.1031	15.21	23 13.2	.3098	12 41.8	1.61
	10	+2.295	−0.2381	+0.1037	15.28	23 13.7	1.3100	12 38.3	−1.47
	11	.306	.2347	.1042	15.35	23 14.1	.3102	12 34.8	1.34
	12	.317	.2313	.1046	15.41	23 14.5	.3104	12 31.3	1.21
	13	.329	.2279	.1050	15.48	23 14.9	.3105	12 27.8	1.07
	14	.340	.2245	.1053	15.55	23 15.3	.3107	12 24.3	0.94
	15	.351	.2210	.1056	15.62	23 15.7	.3108	12 20.7	0.80
	16	.362	.2175	.1059	15.69	23 16.0	.3109	12 17.2	0.67
	17	.373	.2140	.1061	15.76	23 16.4	.3110	12 13.7	0.53
	18	.384	.2105	.1063	15.83	23 16.7	.3110	12 10.2	0.40
	19	.396	.2070	.1064	15.90	23 17.0	.3111	12 6.7	0.26
	20	+2.407	−0.2035	+0.1065	15.97	23 17.4	1.3111	12 3.2	−0.12
	21	.418	.2000	.1065	16.04	23 17.7	.3111	11 59.7	+0.01
	22	.429	.1965	.1065	16.11	23 18.0	.3111	11 56.2	0.15
	23	.441	.1929	.1064	16.18	23 18.2	.3111	11 52.7	0.28
	24	.452	.1893	.1063	16.25	23 18.5	.3110	11 49.2	0.42
	25	.463	.1858	.1061	16.33	23 18.8	.3110	11 45.7	0.55
	26	.474	.1823	.1059	16.40	23 19.0	.3109	11 42.2	0.69
	27	.486	.1788	.1056	16.47	23 19.3	.3108	11 38.7	0.82
	28	.497	.1752	.1053	16.54	23 19.5	.3106	11 35.2	0.96
	29	.508	.1717	.1049	16.61	23 19.7	.3105	11 31.7	1.09
	30	+2.519	−0.1681	+0.1045	16.68	23 19.9	1.3104	11 28.2	+1.23
Juli	1	.530	.1646	.1041	16.75	23 20.1	.3102	11 24.7	1.36
	2	.541	.1610	.1036	16.82	23 20.3	.3100	11 21.2	1.49
	3	.552	.1575	.1031	16.89	23 20.5	.3098	11 17.7	1.63
	4	.563	.1540	.1025	16.96	23 20.7	.3095	11 14.1	1.76
	5	.574	.1505	.1018	17.04	23 20.8	.3093	11 10.6	1.89
	6	.585	.1470	.1011	17.11	23 21.0	.3090	11 7.1	2.03
	7	.596	.1435	.1003	17.18	23 21.1	.3087	11 3.5	2.16
	8	.607	.1400	.0995	17.24	23 21.3	.3084	11 0.0	2.29
	9	.617	.1366	.0987	17.31	23 21.4	.3081	10 56.5	2.42

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	2	+1^s.275	−0.4523	+0.0239	10″.98	21^{h}16^m.7	1.2774	19^{h}16^m.9	−7″.76
	3	.282	.4504	.0230	11.02	21 17.2	.2770	19 12.6	7.80
	4	.289	.4485	.0221	11.06	21 17.8	.2767	19 8.3	7.84
	5	.296	.4467	.0213	11.09	21 18.3	.2763	19 4.0	7.88
	6	.302	.4449	.0205	11.13	21 18.8	.2760	18 59.7	7.91
	7	.309	.4431	.0198	11.17	21 19.4	.2756	18 55.4	7.95
	8	.316	.4413	.0191	11.20	21 19.9	.2753	18 51.1	7.98
	9	.322	.4396	.0184	11.24	21 20.5	.2751	18 46.8	8.00
	10	.329	.4379	.0178	11.27	21 21.0	.2748	18 42.5	8.03
	11	.336	.4362	.0172	11.30	21 21.6	.2746	18 38.1	8.05
	12	+1.342	−0.4345	+0.0167	11.34	21 22.1	1.2744	18 33.8	−8.07
	13	.349	.4329	.0163	11.37	21 22.7	.2742	18 29.5	8.09
	14	.356	.4313	.0160	11.40	21 23.2	.2741	18 25.1	8.11
	15	.362	.4297	.0157	11.43	21 23.8	.2739	18 20.8	8.12
	16	.369	.4281	.0155	11.47	21 24.4	.2738	18 16.5	8.13
	17	.375	.4266	.0153	11.50	21 24.9	.2738	18 12.1	8.14
	18	.382	.4251	.0152	11.53	21 25.5	.2737	18 7.8	8.14
	19	.388	.4236	.0151	11.56	21 26.1	.2736	18 3.5	8.15
	20	.394	.4221	.0150	11.59	21 26.7	.2736	17 59.1	8.15
	21	.401	.4207	.0150	11.62	21 27.3	.2736	17 54.8	8.15
	22	+1.407	−0.4192	+0.0151	11.64	21 27.9	1.2737	17 50.5	−8.14
	23	.414	.4178	.0153	11.67	21 28.5	.2738	17 46.2	8.13
	24	.420	.4164	.0155	11.70	21 29.2	.2739	17 41.9	8.12
	25	.427	.4150	.0158	11.73	21 29.8	.2740	17 37.6	8.11
	26	.433	.4136	.0161	11.76	21 30.5	.2741	17 33.2	8.10
	27	.440	.4122	.0165	11.79	21 31.1	.2743	17 28.9	8.08
	28	.446	.4108	.0169	11.81	21 31.8	.2745	17 24.7	8.06
	29	.453	.4095	.0174	11.84	21 32.5	.2747	17 20.4	8.04
	30	.459	.4081	.0179	11.87	21 33.2	.2749	17 16.1	8.02
	31	.466	.4068	.0185	11.89	21 33.8	.2751	17 11.9	8.00
April	1	+1.472	−0.4054	+0.0191	11.92	21 34.5	1.2754	17 7.6	−7.97
	2	.479	.4041	.0198	11.95	21 35.2	.2757	17 3.3	7.94
	3	.486	.4027	.0206	11.98	21 36.0	.2760	16 59.1	7.91
	4	.492	.4014	.0214	12.00	21 36.7	.2764	16 54.8	7.87
	5	.499	.4001	.0223	12.03	21 37.4	.2767	16 50.6	7.84
	6	.506	.3987	.0232	12.06	21 38.2	.2771	16 46.4	7.80
	7	.513	.3974	.0241	12.08	21 38.9	.2775	16 42.2	7.75
	8	.520	.3960	.0251	12.11	21 39.7	.2779	16 38.0	7.71
	9	.527	.3947	.0261	12.14	21 40.4	.2783	16 33.8	7.66
	10	.534	.3933	.0271	12.17	21 41.2	.2788	16 29.6	7.61
	11	+1.541	−0.3919	+0.0282	12.19	21 42.0	1.2793	16 25.5	−7.56
	12	.548	.3905	.0293	12.22	21 42.8	.2797	16 21.3	7.51
	13	.555	.3891	.0305	12.25	21 43.6	.2802	16 17.1	7.45
	14	.563	.3877	.0317	12.28	21 44.4	.2807	16 13.0	7.39
	15	.570	.3863	.0329	12.30	21 45.2	.2812	16 8.9	7.33
	16	.578	.3849	.0342	12.33	21 46.0	.2818	16 4.8	7.27
	17	.585	.3835	.0355	12.36	21 46.9	.2823	16 0.7	7.21
	18	.593	.3820	.0368	12.39	21 47.7	.2828	15 56.6	7.15
	19	.600	.3805	.0381	12.42	21 48.6	.2834	15 52.5	7.08
	20	.608	.3789	.0395	12.45	21 49.4	.2840	15 48.5	7.01

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	21	+1.616	−0.3774	+0.0409	12.48	21h50m3	1.2846	15h44m4	−6.94
	22	.624	.3758	.0423	12.52	21 51.1	.2852	15 40.4	6.86
	23	.632	.3742	.0438	12.55	21 52.0	.2858	15 36.4	6.79
	24	.640	.3726	.0453	12.58	21 52.8	.2864	15 32.4	6.71
	25	.648	.3710	.0468	12.61	21 53.7	.2870	15 28.4	6.63
	26	.656	.3693	.0483	12.65	21 54.6	.2876	15 24.4	6.55
	27	.664	.3676	.0498	12.68	21 55.5	.2883	15 20.4	6.47
	28	.673	.3659	.0513	12.71	21 56.3	.2889	15 16.5	6.38
	29	.681	.3642	.0529	12.75	21 57.2	.2895	15 12.5	6.29
	30	.690	.3624	.0544	12.78	21 58.1	.2902	15 8.6	6.20
Mai	1	+1.698	−0.3606	+0.0560	12.82	21 59.0	1.2908	15 4.7	−6.11
	2	.707	.3587	.0575	12.86	21 59.9	.2914	15 0.8	6.02
	3	.716	.3568	.0591	12.90	22 0.7	.2921	14 56.9	5.93
	4	.725	.3549	.0606	12.93	22 1.6	.2927	14 53.1	5.83
	5	.734	.3530	.0622	12.97	22 2.5	.2933	14 49.2	5.74
	6	.743	.3510	.0637	13.01	22 3.4	.2940	14 45.4	5.64
	7	.752	.3490	.0652	13.05	22 4.3	.2946	14 41.6	5.54
	8	.761	.3470	.0667	13.09	22 5.2	.2952	14 37.7	5.44
	9	.770	.3449	.0682	13.14	22 6.1	.2958	14 33.9	5.34
	10	.780	.3428	.0697	13.18	22 7.0	.2964	14 30.1	5.23
	11	+1.789	−0.3407	+0.0712	13.22	22 7.8	1.2970	14 26.3	−5.13
	12	.799	.3385	.0726	13.26	22 8.7	.2976	14 22.6	5.02
	13	.808	.3363	.0741	13.31	22 9.6	.2982	14 18.8	4.91
	14	.818	.3340	.0755	13.35	22 10.4	.2988	14 15.0	4.80
	15	.828	.3317	.0770	13.40	22 11.3	.2994	14 11.3	4.68
	16	.838	.3293	.0784	13.45	22 12.2	.2999	14 7.6	4.57
	17	.848	.3269	.0798	13.50	22 13.0	.3005	14 3.9	4.46
	18	.858	.3245	.0812	13.54	22 13.8	.3010	14 0.2	4.35
	19	.868	.3221	.0825	13.59	22 14.7	.3016	13 56.5	4.23
	20	.878	.3196	.0838	13.64	22 15.5	.3021	13 52.8	4.11
	21	+1.888	−0.3171	+0.0851	13.69	22 16.3	1.3026	13 49.1	−3.99
	22	.899	.3146	.0864	13.74	22 17.2	.3031	13 45.5	3.87
	23	.909	.3120	.0876	13.80	22 18.0	.3036	13 41.8	3.75
	24	.920	.3094	.0888	13.85	22 18.8	.3041	13 38.2	3.63
	25	.930	.3067	.0900	13.90	22 19.6	.3046	13 34.6	3.51
	26	.941	.3040	.0912	13.96	22 20.3	.3051	13 30.9	3.39
	27	.952	.3013	.0923	14.01	22 21.1	.3055	13 27.3	3.26
	28	.962	.2985	.0934	14.07	22 21.9	.3059	13 23.7	3.14
	29	.973	.2957	.0945	14.12	22 22.6	.3064	13 20.1	3.01
	30	.984	.2928	.0955	14.18	22 23.4	.3068	13 16.5	2.88
	31	+1.995	−0.2899	+0.0965	14.24	22 24.1	1.3072	13 12.9	−2.75
Juni	1	2.006	.2870	.0974	14.30	22 24.9	.3075	13 9.4	2.63
	2	.017	.2841	.0983	14.35	22 25.6	.3079	13 5.8	2.50
	3	.028	.2812	.0991	14.41	22 26.3	.3082	13 2.2	2.37
	4	.039	.2782	.0999	14.47	22 26.9	.3085	12 58.7	2.24
	5	.050	.2752	.1006	14.53	22 27.6	.3088	12 55.1	2.11
	6	.061	.2721	.1013	14.60	22 28.3	.3091	12 51.6	1.97
	7	.073	.2690	.1020	14.66	22 29.0	.3094	12 48.0	1.84
	8	.084	.2659	.1026	14.72	22 29.6	.3096	12 44.5	1.71
	9	.095	.2627	.1032	14.78	22 30.2	.3098	12 41.0	1.58

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	10	+2.106	−0.2595	+0.1038	14.85	22h30m.8	1.3101	12h37m.5	−1.44
	11	.118	.2563	.1043	14.91	22 31.4	.3102	12 34.0	1.31
	12	.129	.2531	.1047	14.98	22 32.0	.3104	12 30.4	1.17
	13	.141	.2499	.1051	15.04	22 32.6	.3106	12 26.9	1.04
	14	.152	.2467	.1054	15.11	22 33.2	.3107	12 23.4	0.91
	15	.163	.2434	.1057	15.17	22 33.7	.3108	12 19.9	0.77
	16	.175	.2401	.1059	15.24	22 34.3	.3109	12 16.4	0.64
	17	.186	.2368	.1061	15.30	22 34.8	.3110	12 12.9	0.50
	18	.198	.2335	.1063	15.37	22 35.3	.3110	12 9.4	0.36
	19	.209	.2301	.1064	15.44	22 35.8	.3111	12 5.9	0.23
	20	+2.221	−0.2267	+0.1065	15.51	22 36.3	1.3111	12 2.4	−0.09
	21	.232	.2233	.1065	15.57	22 36.8	.3111	11 58.9	+0.04
	22	.244	.2199	.1065	15.64	22 37.3	.3111	11 55.4	0.18
	23	.255	.2165	.1064	15.71	22 37.7	.3111	11 51.9	0.31
	24	.267	.2131	.1063	15.78	22 38.2	.3110	11 48.4	0.45
	25	.278	.2096	.1061	15.85	22 38.6	.3109	11 44.9	0.58
	26	.290	.2062	.1058	15.92	22 39.0	.3108	11 41.4	0.72
	27	.301	.2027	.1055	15.99	22 39.4	.3107	11 37.9	0.85
	28	.313	.1993	.1052	16.06	22 39.8	.3106	11 34.4	0.99
	29	.324	.1958	.1048	16.13	22 40.2	.3105	11 30.8	1.12
	30	+2.335	−0.1924	+0.1044	16.19	22 40.6	1.3103	11 27.3	+1.26
Juli	1	.347	.1889	.1040	16.26	22 41.0	.3101	11 23.8	1.39
	2	.358	.1854	.1035	16.33	22 41.3	.3099	11 20.3	1.53
	3	.369	.1819	.1029	16.40	22 41.7	.3097	11 16.8	1.66
	4	.380	.1784	.1023	16.47	22 42.0	.3095	11 13.3	1.79
	5	.392	.1749	.1016	16.54	22 42.3	.3092	11 9.8	1.93
	6	.403	.1714	.1009	16.61	22 42.6	.3089	11 6.2	2.06
	7	.414	.1680	.1001	16.68	22 42.9	.3086	11 2.7	2.19
	8	.425	.1645	.0993	16.75	22 43.2	.3083	10 59.1	2.32
	9	.436	.1611	.0985	16.82	22 43.4	.3080	10 55.6	2.45
	10	+2.447	−0.1577	+0.0977	16.89	22 43.7	1.3077	10 52.0	+2.58
	11	.458	.1543	.0968	16.96	22 44.0	.3073	10 48.5	2.70
	12	.469	.1508	.0958	17.03	22 44.2	.3069	10 44.9	2.83
	13	.480	.1474	.0948	17.10	22 44.4	.3065	10 41.3	2.96
	14	.491	.1440	.0938	17.17	22 44.7	.3061	10 37.8	3.08
	15	.501	.1406	.0927	17.23	22 44.9	.3057	10 34.2	3.21
	16	.512	.1372	.0917	17.30	22 45.1	.3053	10 30.6	3.33
	17	.522	.1338	.0906	17.37	22 45.3	.3048	10 27.0	3.46
	18	.533	.1304	.0895	17.44	22 45.5	.3044	10 23.4	3.58
	19	.543	.1271	.0883	17.50	22 45.7	.3039	10 19.8	3.70
	20	+2.554	−0.1238	+0.0871	17.57	22 45.8	1.3034	10 16.2	+3.82
	21	.564	.1205	.0859	17.64	22 46.0	.3029	10 12.5	3.94
	22	.575	.1172	.0846	17.70	22 46.2	.3024	10 8.9	4.06
	23	.585	.1139	.0833	17.77	22 46.3	.3019	10 5.2	4.18
	24	.595	.1106	.0819	17.83	22 46.5	.3013	10 1.5	4.29
	25	.605	.1074	.0805	17.90	22 46.6	.3008	9 57.9	4.41
	26	.615	.1042	.0791	17.96	22 46.7	.3002	9 54.2	4.52
	27	.625	.1010	.0777	18.03	22 46.9	.2997	9 50.5	4.63
	28	.634	.0978	.0763	18.09	22 47.0	.2991	9 46.8	4.74
	29	.644	.0946	.0750	18.16	22 47.1	.2986	9 43.1	4.85

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	30	$+2^s.654$	−0.0914	+0.0736	18″.22	$22^h47^m.2$	1.2980	$9^h39^m.4$	+4″.96
	31	.663	.0883	.0721	18.28	22 47.3	.2974	9 35.6	5.07
August	1	.672	.0852	.0706	18.34	22 47.4	.2968	9 31.9	5.18
	2	.682	.0821	.0691	18.41	22 47.5	.2962	9 28.1	5.28
	3	.691	.0790	.0675	18.47	22 47.6	.2956	9 24.4	5.39
	4	.700	.0760	.0660	18.53	22 47.7	.2949	9 20.6	5.49
	5	.710	.0730	.0645	18.59	22 47.8	.2943	9 16.8	5.59
	6	.719	.0700	.0630	18.65	22 47.9	.2937	9 13.0	5.68
	7	.728	.0671	.0615	18.71	22 48.0	.2931	9 9.2	5.78
	8	.736	.0642	.0600	18.76	22 48.1	.2925	9 5.3	5.88
	9	+2.745	−0.0613	+0.0584	18.82	22 48.1	1.2918	9 1.5	+5.97
	10	.754	.0584	.0569	18.88	22 48.2	.2912	8 57.6	6.06
	11	.762	.0556	.0553	18.94	22 48.3	.2906	8 53.8	6.15
	12	.771	.0528	.0538	18.99	22 48.4	.2899	8 49.9	6.24
	13	.779	.0500	.0523	19.05	22 48.4	.2893	8 46.0	6.33
	14	.788	.0472	.0508	19.10	22 48.5	.2887	8 42.1	6.41
	15	.796	.0445	.0493	19.16	22 48.6	.2881	8 38.2	6.50
	16	.804	.0418	.0478	19.21	22 48.6	.2874	8 34.2	6.58
	17	.812	.0391	.0463	19.27	22 48.7	.2868	8 30.3	6.66
	18	.820	.0365	.0449	19.32	22 48.8	.2862	8 26.3	6.74
	19	+2.828	−0.0339	+0.0434	19.37	22 48.8	1.2856	8 22.4	+6.81
	20	.836	.0313	.0420	19.42	22 48.9	.2850	8 18.4	6.89
	21	.843	.0287	.0406	19.48	22 49.0	.2845	8 14.4	6.96
	22	.851	.0261	.0392	19.53	22 49.1	.2839	8 10.4	7.03
	23	.859	.0236	.0378	19.58	22 49.1	.2833	8 6.3	7.10
	24	.866	.0211	.0365	19.63	22 49.2	.2828	8 2.3	7.16
	25	.874	.0187	.0352	19.68	22 49.3	.2822	7 58.3	7.23
	26	.881	.0163	.0339	19.72	22 49.4	.2816	7 54.2	7.29
	27	.888	.0139	.0326	19.77	22 49.4	.2811	7 50.1	7.35
	28	.896	.0116	.0314	19.82	22 49.5	.2806	7 46.1	7.41
	29	+2.903	−0.0093	+0.0303	19.87	22 49.6	1.2801	7 42.0	+7.46
	30	.910	.0070	.0292	19.91	22 49.7	.2796	7 37.9	7.52
	31	.917	.0047	.0281	19.96	22 49.8	.2792	7 33.8	7.57
Septbr.	1	.924	.0024	.0270	20.00	22 49.9	.2787	7 29.6	7.62
	2	.931	−0.0002	.0259	20.05	22 50.0	.2783	7 25.5	7.67
	3	.938	+0.0020	.0249	20.09	22 50.1	.2778	7 21.3	7.71
	4	.945	.0042	.0239	20.14	22 50.2	.2774	7 17.2	7.76
	5	.952	.0064	.0230	20.18	22 50.3	.2770	7 13.0	7.80
	6	.958	.0085	.0221	20.22	22 50.4	.2767	7 8.9	7.83
	7	.965	.0106	.0213	20.27	22 50.5	.2763	7 4.7	7.87
	8	+2.972	+0.0127	+0.0205	20.31	22 50.6	1.2760	7 0.5	+7.90
	9	.978	.0148	.0198	20.35	22 50.8	.2757	6 56.3	7.94
	10	.985	.0169	.0191	20.39	22 50.9	.2754	6 52.1	7.97
	11	.991	.0189	.0185	20.43	22 51.0	.2751	6 47.9	8.00
	12	2.998	.0209	.0179	20.47	22 51.2	.2749	6 43.7	8.03
	13	3.004	.0229	.0174	20.51	22 51.3	.2747	6 39.4	8.05
	14	.011	.0249	.0169	20.55	22 51.5	.2745	6 35.2	8.07
	15	.017	.0269	.0165	20.59	22 51.6	.2743	6 31.0	8.09
	16	.023	.0289	.0161	20.63	22 51.8	.2741	6 26.7	8.10
	17	.030	.0308	.0158	20.67	22 52.0	.2740	6 22.5	8.12

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	18	+3.036	+0.0327	+0.0156	20.71	$22^h 52^m.1$	1.2739	$6^h 18^m.2$	+8.13
	19	.042	.0346	.0154	20.75	22 52.3	.2738	6 13.9	8.14
	20	.049	.0365	.0152	20.78	22 52.5	.2737	6 9.7	8.14
	21	.055	.0384	.0151	20.82	22 52.7	.2737	6 5.4	8.15
	22	.061	.0403	.0150	20.86	22 52.9	.2736	6 1.1	8.15
	23	.068	.0421	.0150	20.90	22 53.1	.2736	5 56.9	8.15
	24	.074	.0440	.0151	20.93	22 53.3	.2737	5 52.6	8.15
	25	.080	.0458	.0152	20.97	22 53.5	.2737	5 48.3	8.14
	26	.087	.0477	.0154	21.01	22 53.7	.2738	5 44.0	8.13
	27	.093	.0495	.0157	21.05	22 54.0	.2739	5 39.7	8.12
	28	+3.099	+0.0514	+0.0160	21.08	22 54.2	1.2740	5 35.4	+8.11
	29	.106	.0532	.0163	21.12	22 54.4	.2742	5 31.1	8.10
	30	.112	.0550	.0167	21.16	22 54.7	.2743	5 26.9	8.08
Oktbr.	1	.118	.0569	.0172	21.19	22 54.9	.2745	5 22.6	8.06
	2	.125	.0587	.0177	21.23	22 55.2	.2747	5 18.3	8.04
	3	.131	.0606	.0182	21.27	22 55.5	.2750	5 14.1	8.01
	4	.138	.0624	.0188	21.30	22 55.7	.2753	5 9.8	7.98
	5	.144	.0643	.0195	21.34	22 56.0	.2756	5 5.5	7.95
	6	.151	.0661	.0202	21.38	22 56.3	.2759	5 1.3	7.92
	7	.157	.0680	.0210	21.41	22 56.6	.2762	4 57.0	7.89
	8	+3.164	+0.0698	+0.0218	21.45	22 56.9	1.2765	4 52.8	+7.85
	9	.171	.0717	.0227	21.49	22 57.2	.2769	4 48.5	7.81
	10	.178	.0736	.0236	21.53	22 57.5	.2773	4 44.2	7.77
	11	.185	.0755	.0246	21.57	22 57.8	.2777	4 40.0	7.73
	12	.191	.0774	.0256	21.60	22 58.1	.2781	4 35.8	7.68
	13	.198	.0793	.0266	21.64	22 58.5	.2786	4 31.5	7.63
	14	.205	.0812	.0277	21.68	22 58.8	.2790	4 27.3	7.58
	15	.212	.0832	.0288	21.72	22 59.1	.2795	4 23.1	7.53
	16	.220	.0852	.0300	21.76	22 59.5	.2800	4 18.9	7.48
	17	.227	.0872	.0312	21.80	22 59.8	.2805	4 14.7	7.42
	18	+3.234	+0.0892	+0.0325	21.84	23 0.1	1.2811	4 10.5	+7.36
	19	.241	.0912	.0338	21.88	23 0.5	.2816	4 6.3	7.30
	20	.249	.0932	.0351	21.92	23 0.9	.2822	4 2.1	7.23
	21	.256	.0953	.0364	21.96	23 1.2	.2827	3 58.0	7.17
	22	.264	.0974	.0378	22.00	23 1.6	.2833	3 53.8	7.10
	23	.272	.0995	.0392	22.05	23 2.0	.2839	3 49.6	7.03
	24	.279	.1017	.0406	22.09	23 2.3	.2845	3 45.5	6.95
	25	.287	.1039	.0421	22.14	23 2.7	.2851	3 41.3	6.88
	26	.295	.1061	.0436	22.18	23 3.1	.2857	3 37.2	6.80
	27	.303	.1084	.0451	22.22	23 3.5	.2863	3 33.1	6.72
	28	+3.311	+0.1106	+0.0466	22.27	23 3.8	1.2869	3 29.0	+6.64
	29	.319	.1129	.0481	22.31	23 4.2	.2876	3 24.9	6.56
	30	.328	.1152	.0496	22.36	23 4.6	.2882	3 20.8	6.47
	31	.336	.1175	.0512	22.41	23 5.0	.2889	3 16.7	6.39
Novbr.	1	.344	.1199	.0528	22.46	23 5.4	.2895	3 12.7	6.30
	2	.353	.1224	.0544	22.50	23 5.8	.2902	3 8.6	6.20
	3	.362	.1248	.0560	22.55	23 6.2	.2908	3 4.5	6.11
	4	.371	.1273	.0576	22.60	23 6.6	.2915	3 0.5	6.02
	5	.379	.1298	.0592	22.65	23 7.0	.2921	2 56.5	5.92
	6	.388	.1323	.0608	22.70	23 7.4	.2928	2 52.5	5.82

1841

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	+3.398	+0.1348	+0.0624	22.76	$23^h\ 7^m.8$	1.2934	$2^h48^m.5$	+5.72
	8	.407	.1374	.0640	22.81	23 8.2	.2941	2 44.5	5.62
	9	.416	.1401	.0656	22.86	23 8.5	.2948	2 40.5	5.51
	10	.425	.1428	.0672	22.91	23 8.9	.2954	2 36.5	5.41
	11	.435	.1455	.0688	22.97	23 9.3	.2961	2 32.5	5.30
	12	.444	.1482	.0704	23.02	23 9.7	.2967	2 28.6	5.19
	13	.454	.1509	.0719	23.08	23 10.1	.2973	2 24.6	5.08
	14	.463	.1537	.0734	23.13	23 10.5	.2979	2 20.7	4.96
	15	.473	.1565	.0749	23.19	23 10.9	.2985	2 16.8	4.85
	16	.483	.1594	.0764	23.25	23 11.3	.2991	2 12.9	4.73
	17	+3.493	+0.1623	+0.0779	23.31	23 11.6	1.2997	2 9.0	+4.62
	18	.503	.1653	.0793	23.37	23 12.0	.3003	2 5.1	4.49
	19	.513	.1683	.0808	23.43	23 12.4	.3009	2 1.2	4.37
	20	.523	.1713	.0822	23.49	23 12.8	.3015	1 57.3	4.25
	21	.534	.1744	.0836	23.55	23 13.1	.3020	1 53.4	4.13
	22	.544	.1775	.0850	23.61	23 13.5	.3026	1 49.6	4.01
	23	.555	.1806	.0863	23.67	23 13.8	.3031	1 45.7	3.88
	24	.566	.1838	.0876	23.74	23 14.2	.3037	1 41.9	3.75
	25	.576	.1870	.0889	23.80	23 14.5	.3042	1 38.0	3.62
	26	.587	.1903	.0902	23.87	23 14.9	.3047	1 34.2	3.49
	27	+3.598	+0.1935	+0.0914	23.93	23 15.2	1.3051	1 30.4	+3.36
	28	.609	.1968	.0926	24.00	23 15.6	.3056	1 26.5	3.23
	29	.620	.2001	.0937	24.06	23 15.9	.3061	1 22.7	3.10
	30	.631	.2034	.0948	24.13	23 16.2	.3065	1 18.9	2.97
Dezbr.	1	.642	.2067	.0958	24.20	23 16.5	.3069	1 15.1	2.83
	2	.653	.2101	.0968	24.27	23 16.8	.3073	1 11.3	2.70
	3	.665	.2135	.0977	24.33	23 17.1	.3077	1 7.5	2.56
	4	.676	.2170	.0986	24.40	23 17.4	.3080	1 3.7	2.42
	5	.687	.2205	.0995	24.47	23 17.7	.3084	1 0.0	2.29
	6	.699	.2240	.1003	24.54	23 18.0	.3087	0 56.2	2.15
	7	+3.710	+0.2275	+0.1011	24.61	23 18.3	1.3090	0 52.4	+2.00
	8	.722	.2310	.1018	24.68	23 18.6	.3093	0 48.6	1.86
	9	.733	.2346	.1025	24.76	23 18.8	.3095	0 44.9	1.72
	10	.745	.2382	.1031	24.83	23 19.1	.3098	0 41.1	1.58
	11	.757	.2418	.1037	24.90	23 19.4	.3100	0 37.4	1.44
	12	.768	.2455	.1042	24.97	23 19.6	.3102	0 33.6	1.30
	13	.780	.2491	.1047	25.05	23 19.8	.3104	0 29.9	1.16
	14	.792	.2528	.1051	25.12	23 20.1	.3106	0 26.1	1.01
	15	.803	.2564	1055	25.19	23 20.3	.3107	0 22.4	0.87
	16	.815	.2601	.1058	25.27	23 20.5	.3108	0 18.7	0.73
	17	+3.827	+0.2638	+0.1061	25.34	23 20.7	1.3109	0 14.9	+0.58
	18	.839	.2675	.1063	25.42	23 20.9	.3110	0 11.2	0.44
	19	.851	.2712	.1064	25.49	23 21.1	.3111	0 7.5	0.29
	20	.863	.2750	.1064	25.57	23 21.3	.3111	0 3.7	+0.14
	21	.874	.2787	.1064	25.64	23 21.5	.3111	0 0.0	0.00
	22	.886	.2825	.1064	25.72	23 21.7	.3111	23 56.2	−0.15
	23	.898	.2862	.1063	25.79	23 21.8	.3111	23 52.5	0.29
	24	.910	.2900	1062	25.87	23 22.0	.3110	23 48.8	0.44
	25	.922	.2937	1060	25.94	23 22.2	.3110	23 45.0	0.58
	26	.934	.2975	.1058	26.02	23 22.3	.3109	23 41.3	0.73

1841

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	+3s.946	+0.3012	+0.1055	26″.09	23h22m.4	1.3108	23h37m.5	−0″.87
	28	.957	.3050	.1052	26.17	23 22.6	.3106	23 33.8	1.01
	29	.969	.3088	.1048	26.24	23 22.7	.3105	23 30.0	1.16
	30	.981	.3126	.1044	26.32	23 22.8	.3103	23 26.3	1.30
	31	.992	.3164	.1040	26.39	23 22.9	.3101	23 22.5	1.44

1842

Januar	1	+0s.933	−0.6303	+0.1032	7″.41	21h40m.1	1.3098	23h18m.8	−1″.58
	2	.945	.6271	.1026	7.48	21 41.4	.3096	23 15.0	1.72
	3	.956	.6240	.1019	7.54	21 42.6	.3093	23 11.2	1.87
	4	.968	.6208	.1012	7.60	21 43.8	.3090	23 7.4	2.01
	5	.979	.6177	.1004	7.67	21 45.0	.3087	23 3.7	2.15
	6	0.991	.6145	.0996	7.73	21 46.2	.3084	22 59.9	2.29
	7	1.002	.6113	.0987	7.79	21 47.3	.3080	22 56.1	2.43
	8	.013	.6081	.0978	7.86	21 48.4	.3077	22 52.3	2.56
	9	.025	.6049	.0969	7.92	21 49.4	.3073	22 48.5	2.70
	10	.036	.6017	.0959	7.99	21 50.4	.3069	22 44.7	2.84
	11	+1.047	−0.5984	+0.0948	8.05	21 51.4	1.3065	22 40.9	−2.97
	12	.058	.5952	.0937	8.12	21 52.3	.3061	22 37.0	3.11
	13	.069	.5920	.0925	8.18	21 53.2	.3056	22 33.2	3.24
	14	.080	.5888	.0913	8.24	21 54.1	.3051	22 29.4	3.37
	15	.091	.5856	.0901	8.31	21 54.9	.3046	22 25.5	3.50
	16	.102	.5824	.0888	8.37	21 55.7	.3041	22 21.7	3.63
	17	.112	.5791	.0876	8.44	21 56.5	.3036	22 17.8	3.76
	18	.123	.5759	.0863	8.50	21 57.3	.3031	22 13.9	3.89
	19	.133	.5727	.0850	8.57	21 58.0	.3026	22 10.1	4.02
	20	.144	.5695	.0836	8.63	21 58.7	.3020	22 6.2	4.14
	21	+1.154	−0.5663	+0.0822	8.70	21 59.3	1.3014	22 2.3	−4.27
	22	.164	.5632	.0807	8.76	21 59.9	.3009	21 58.4	4.39
	23	.174	.5601	.0793	8.82	22 0.5	.3003	21 54.5	4.51
	24	.184	.5570	.0778	8.88	22 1.1	.2997	21 50.5	4.63
	25	.194	.5539	.0763	8.95	22 1.7	.2991	21 46.6	4.75
	26	.204	.5508	.0748	9.01	22 2.3	.2985	21 42.6	4.87
	27	.214	.5477	.0733	9.07	22 2.8	.2979	21 38.7	4.98
	28	.224	.5447	.0717	9.13	22 3.3	.2972	21 34.7	5.10
	29	.233	.5417	.0701	9.19	22 3.8	.2966	21 30.8	5.21
	30	.243	.5387	.0685	9.25	22 4.3	.2959	21 26.8	5.32
	31	+1.252	−0.5357	+0.0669	9.31	22 4.8	1.2953	21 22.8	−5.43
Februar	1	.262	.5328	.0653	9.37	22 5.2	.2946	21 18.8	5.53
	2	.271	.5298	.0636	9.43	22 5.7	.2940	21 14.7	5.64
	3	.280	.5269	.0620	9.49	22 6.1	.2933	21 10.7	5.74
	4	.289	.5240	.0604	9.54	22 6.5	.2926	21 6.7	5.84
	5	.298	.5212	.0588	9.60	22 6.9	.2920	21 2.6	5.94
	6	.307	.5184	.0572	9.66	22 7.3	.2913	20 58.5	6.04
	7	.315	.5156	.0556	9.71	22 7.7	.2907	20 54.5	6.13
	8	.324	.5129	.0540	9.77	22 8.1	.2900	20 50.4	6.23
	9	.332	.5102	.0524	9.82	22 8.4	.2893	20 46.3	6.32

1842

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	+1.341	−0.5075	+0.0508	9.″87	22^h 8.^{m}8	1.2887	$20^h42.^m2$	−6.″41
11	.349	.5048	.0493	9.93	22 9.1	.2881	20 38.1	6.50
12	.357	.5022	.0477	9.98	22 9.5	.2874	20 33.9	6.58
13	.365	.4996	.0462	10.03	22 9.8	.2868	20 29.8	6.67
14	.373	.4971	.0447	10.08	22 10.1	.2861	20 25.6	6.75
15	.381	.4946	.0432	10.13	22 10.5	.2855	20 21.5	6.83
16	.389	.4921	.0417	10.18	22 10.8	.2849	20 17.3	6.90
17	.397	.4896	.0402	10.23	22 11.1	.2843	20 13.1	6.98
18	.404	.4871	.0387	10.28	22 11.4	.2837	20 8.9	7.05
19	.412	.4847	.0373	10.33	22 11.7	.2831	20 4.7	7.12
20	+1.420	−0.4823	+0.0359	10.38	22 12.0	1.2825	20 0.5	−7.19
21	.427	.4799	.0346	10.43	22 12.4	.2819	19 56.3	7.26
22	.434	.4776	.0333	10.47	22 12.7	.2814	19 52.1	7.32
23	.442	.4753	.0320	10.52	22 13.0	.2808	19 47.9	7.38
24	.449	.4731	.0307	10.56	22 13.3	.2803	19 43.6	7.44
25	.456	.4709	.0295	10.61	22 13.6	.2798	19 39.4	7.50
26	.463	.4687	.0283	10.65	22 13.9	.2793	19 35.1	7.56
27	.470	.4665	.0272	10.70	22 14.2	.2788	19 30.8	7.61
28	.477	.4644	.0261	10.74	22 14.6	.2784	19 26.5	7.66
März 1	.483	.4623	.0251	10.78	22 14.9	.2779	19 22.3	7.71
2	+1.490	−0.4602	+0.0241	10.82	22 15.2	1.2775	19 18.0	−7.75
3	.497	.4582	.0232	10.86	22 15.6	.2771	19 13.7	7.79
4	.504	.4562	.0223	10.90	22 15.9	.2767	19 9.4	7.83
5	.510	.4542	.0215	10.94	22 16.3	.2764	19 5.1	7.87
6	.517	.4522	.0207	10.98	22 16.6	.2761	19 0.8	7.90
7	.523	.4502	.0199	11.02	22 17.0	.2757	18 56.5	7.94
8	.530	.4483	.0192	11.06	22 17.3	.2754	18 52.1	7.97
9	.536	.4464	.0185	11.10	22 17.7	.2751	18 47.8	8.00
10	.543	.4445	.0179	11.14	22 18.1	.2749	18 43.5	8.02
11	.549	.4426	.0173	11.18	22 18.5	.2746	18 39.2	8.05
12	+1.555	−0.4408	+0.0168	11.21	22 18.9	1.2744	18 34.8	−8.07
13	.562	.4390	.0164	11.25	22 19.3	.2742	18 30.5	8.09
14	.568	.4372	.0161	11.28	22 19.7	.2741	18 26.2	8.10
15	.574	.4355	.0158	11.32	22 20.1	.2740	18 21.8	8.12
16	.580	.4337	.0155	11.35	22 20.5	.2739	18 17.5	8.13
17	.587	.4320	.0153	11.39	22 20.9	.2738	18 13.2	8.14
18	.593	.4303	.0151	11.42	22 21.4	.2737	18 8.8	8.14
19	.599	.4286	.0150	11.46	22 21.8	.2736	18 4.5	8.15
20	.605	.4270	.0150	11.49	22 22.3	.2736	18 0.2	8.15
21	.611	.4253	.0150	11.52	22 22.7	.2736	17 55.9	8.15
22	+1.618	−0.4236	+0.0151	11.56	22 23.2	1.2737	17 51.5	−8.14
23	.624	.4219	.0152	11.59	22 23.7	.2737	17 47.2	8.14
24	.630	.4202	.0154	11.62	22 24.2	.2738	17 42.9	8.13
25	.636	.4186	.0157	11.66	22 24.7	.2739	17 38.6	8.12
26	.642	.4170	.0160	11.69	22 25.3	.2741	17 34.3	8.10
27	.649	.4154	.0164	11.72	22 25.8	.2742	17 30.0	8.09
28	.655	.4138	.0168	11.76	22 26.3	.2744	17 25.7	8.07
29	.661	.4121	.0173	11.79	22 26.9	.2746	17 21.4	8.05
30	.668	.4105	.0178	11.82	22 27.4	.2748	17 17.1	8.03
31	.674	.4088	.0183	11.85	22 28.0	.2750	17 12.9	8.00

1842

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	+1s.680	−0.4072	+0.0189	11″.89	22h 28m.6	1.2753	17h 8m.6	−7″.98
	2	.687	.4055	.0196	11.92	22 29.2	.2756	17 4.4	7.95
	3	.693	.4038	.0204	11.95	22 29.7	.2759	17 0.1	7.92
	4	.699	.4022	.0212	11.98	22 30.3	.2763	16 55.9	7.88
	5	.706	.4006	.0220	12.02	22 30.9	.2766	16 51.6	7.84
	6	.713	.3990	.0229	12.05	22 31.6	.2770	16 47.4	7.80
	7	.719	.3973	.0238	12.08	22 32.2	.2774	16 43.2	7.76
	8	.726	.3957	.0248	12.12	22 32.8	.2778	16 39.0	7.72
	9	.733	.3940	.0258	12.15	22 33.5	.2782	16 34.8	7.67
	10	.739	.3923	.0269	12.18	22 34.1	.2787	16 30.6	7.62
	11	+1.746	−0.3906	+0.0280	12.22	22 34.8	1.2792	16 26.5	−7.57
	12	.753	.3889	.0291	12.25	22 35.4	.2796	16 22.3	7.52
	13	.760	.3872	.0302	12.29	22 36.1	.2801	16 18.2	7.47
	14	.767	.3854	.0314	12.32	22 36.8	.2806	16 14.0	7.41
	15	.774	.3836	.0326	12.36	22 37.5	.2811	16 9.9	7.35
	16	.781	.3818	.0339	12.39	22 38.2	.2816	16 5.8	7.29
	17	.789	.3800	.0352	12.43	22 38.9	.2822	16 1.7	7.23
	18	.796	.3782	.0365	12.47	22 39.6	.2827	15 57.6	7.16
	19	.803	.3764	.0378	12.51	22 40.3	.2833	15 53.5	7.09
	20	.811	.3745	.0392	12.54	22 41.0	.2838	15 49.5	7.02
	21	+1.818	−0.3726	+0.0406	12.58	22 41.7	1.2844	15 45.4	−6.95
	22	.826	.3707	.0420	12.62	22 42.4	.2850	15 41.4	6.88
	23	.834	.3687	.0434	12.66	22 43.1	.2856	15 37.4	6.81
	24	.842	.3667	.0449	12.70	22 43.9	.2863	15 33.3	6.73
	25	.849	.3647	.0464	12.74	22 44.6	.2869	15 29.4	6.65
	26	.857	.3626	.0479	12.78	22 45.3	.2875	15 25.4	6.57
	27	.865	.3606	.0494	12.82	22 46.0	.2881	15 21.4	6.49
	28	.873	.3585	.0509	12.86	22 46.8	.2888	15 17.4	6.40
	29	.881	.3564	.0524	12.91	22 47.5	.2894	15 13.5	6.31
	30	.890	.3542	.0540	12.95	22 48.2	.2900	15 9.6	6.23
Mai	1	+1.898	−0.3520	+0.0555	12.99	22 49.0	1.2906	15 5.6	−6.14
	2	.907	.3498	.0571	13.04	22 49.7	.2913	15 1.7	6.05
	3	.915	.3475	.0587	13.08	22 50.4	.2919	14 57.9	5.95
	4	.924	.3452	.0602	13.13	22 51.1	.2925	14 54.0	5.86
	5	.932	.3429	.0618	13.18	22 51.9	.2932	14 50.1	5.76
	6	.941	.3405	.0633	13.22	22 52.6	.2938	14 46.3	5.66
	7	.950	.3381	.0648	13.27	22 53.3	.2944	14 42.5	5.56
	8	.959	.3357	.0663	13.32	22 54.0	.2950	14 38.7	5.46
	9	.968	.3332	.0678	13.37	22 54.7	.2957	14 34.8	5.36
	10	.977	.3307	.0693	13.42	22 55.5	.2963	14 31.0	5.26
	11	+1.986	−0.3282	+0.0708	13.47	22 56.2	1.2969	14 27.2	−5.15
	12	1.996	.3256	.0723	13.52	22 56.9	.2975	14 23.5	5.04
	13	2.005	.3230	.0738	13.57	22 57.6	.2981	14 19.7	4.93
	14	.014	.3204	.0752	13.63	22 58.3	.2987	14 15.9	4.82
	15	.024	.3178	.0766	13.68	22 58.9	.2992	14 12.2	4.71
	16	.033	.3151	.0780	13.73	22 59.6	.2998	14 8.5	4.60
	17	.043	.3124	.0794	13.79	23 0.3	.3004	14 4.8	4.49
	18	.053	.3096	.0808	13.84	23 1.0	.3009	14 1.0	4.38
	19	.063	.3068	.0822	13.90	23 1.6	.3015	13 57.4	4.26
	20	.073	.3040	.0835	13.96	23 2.3	.3020	13 53.7	4.14

1842

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	+2.083	−0.3012	+0.0848	14.″01	$23^h\ 2.^m9$	1.3025	$13^h 50.^m0$	−4.″02
	22	.093	.2983	.0861	14.07	23 3.5	.3030	13 46.3	3.90
	23	.103	.2954	.0873	14.13	23 4.2	.3035	13 42.7	3.78
	24	.113	.2924	.0885	14.19	23 4.8	.3040	13 39.1	3.66
	25	.123	.2894	.0897	14.25	23 5.4	.3045	13 35.4	3.54
	26	.134	.2864	.0909	14.31	23 6.0	.3049	13 31.8	3.42
	27	.144	.2834	.0920	14.37	23 6.6	.3054	13 28.2	3.29
	28	.155	.2803	.0931	14.43	23 7.2	.3058	13 24.6	3.17
	29	.165	.2772	.0942	14.49	23 7.7	.3063	13 21.0	3.04
	30	.176	.2741	.0953	14.56	23 8.3	.3067	13 17.4	2.91
	31	+2.186	−0.2710	+0.0963	14.62	23 8.8	1.3071	13 13.8	−2.79
Juni	1	.197	.2678	.0972	14.68	23 9.4	.3074	13 10.2	2.66
	2	.208	.2646	.0981	14.75	23 9.9	.3078	13 6.7	2.53
	3	.218	.2613	.0989	14.81	23 10.4	.3081	13 3.1	2.40
	4	.229	.2581	.0997	14.88	23 10.9	.3084	12 59.6	2.27
	5	.240	.2548	.1004	14.94	23 11.4	.3087	12 56.0	2.14
	6	.251	.2515	.1011	15.01	23 11.9	.3090	12 52.4	2.01
	7	.262	.2482	.1018	15.08	23 12.3	.3093	12 48.9	1.87
	8	.273	.2449	.1025	15.14	23 12.8	.3095	12 45.4	1.74
	9	.284	.2415	.1031	15.21	23 13.2	.3098	12 41.8	1.61
	10	+2.295	−0.2381	+0.1037	15.28	23 13.7	1.3100	12 38.3	−1.47
	11	.306	.2347	.1042	15.35	23 14.1	.3102	12 34.8	1.34
	12	.317	.2313	.1046	15.41	23 14.5	.3104	12 31.3	1.21
	13	.329	.2279	.1050	15.48	23 14.9	.3105	12 27.8	1.07
	14	.340	.2245	.1053	15.55	23 15.3	.3107	12 24.3	0.94
	15	.351	.2210	.1056	15.62	23 15.7	.3108	12 20.7	0.80
	16	.362	.2175	.1059	15.69	23 16.0	.3109	12 17.2	0.67
	17	.373	.2140	.1061	15.76	23 16.4	.3110	12 13.7	0.53
	18	.384	.2105	.1063	15.83	23 16.7	.3110	12 10.2	0.40
	19	.396	.2070	.1064	15.90	23 17.0	.3111	12 6.7	0.26
	20	+2.407	−0.2035	+0.1065	15.97	23 17.4	1.3111	12 3.2	−0.12
	21	.418	.2000	.1065	16.04	23 17.7	.3111	11 59.7	+0.01
	22	.429	.1965	.1065	16.11	23 18.0	.3111	11 56.2	0.15
	23	.441	.1929	.1064	16.18	23 18.2	.3111	11 52.7	0.28
	24	.452	.1893	.1063	16.25	23 18.5	.3110	11 49.2	0.42
	25	.463	.1858	.1061	16.33	23 18.8	.3110	11 45.7	0.55
	26	.474	.1823	.1059	16.40	23 19.0	.3109	11 42.2	0.69
	27	.486	.1788	.1056	16.47	23 19.3	.3108	11 38.7	0.82
	28	.497	.1752	.1053	16.54	23 19.5	.3106	11 35.2	0.96
	29	.508	.1717	.1049	16.61	23 19.7	.3105	11 31.7	1.09
	30	+2.519	−0.1681	+0.1045	16.68	23 19.9	1.3104	11 28.2	+1.23
Juli	1	.530	.1646	.1041	16.75	23 20.1	.3102	11 24.7	1.36
	2	.541	.1610	.1036	16.82	23 20.3	.3100	11 21.2	1.49
	3	.552	.1575	.1031	16.89	23 20.5	.3098	11 17.7	1.63
	4	.563	.1540	.1025	16.96	23 20.7	.3095	11 14.1	1.76
	5	.574	.1505	.1018	17.04	23 20.8	.3093	11 10.6	1.89
	6	.585	.1470	.1011	17.11	23 21.0	.3090	11 7.1	2.03
	7	.596	.1435	.1003	17.18	23 21.1	.3087	11 3.5	2.16
	8	.607	.1400	.0995	17.24	23 21.3	.3084	11 0.0	2.29
	9	.617	.1366	.0987	17.31	23 21.4	.3081	10 56.5	2.42

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	22	$+1^s.598$	−0.4398	+0.0151	11.″23	$1^h27^m.9$	1.2737	$17^h50^m.4$	−8.″14
	23	.604	.4380	.0153	11.27	1 27.8	.2738	17 46.1	8.14
	24	.609	.4363	.0155	11.30	1 27.8	.2739	17 41.8	8.13
	25	.614	.4345	.0158	11.34	1 27.7	.2740	17 37.4	8.11
	26	.619	.4327	.0161	11.38	1 27.6	.2741	17 33.1	8.10
	27	.625	.4308	.0165	11.41	1 27.6	.2743	17 28.8	8.09
	28	.630	.4290	.0169	11.45	1 27.6	.2745	17 24.6	8.07
	29	.635	.4271	.0174	11.49	1 27.5	.2747	17 20.3	8.05
	30	.641	.4252	.0180	11.52	1 27.5	.2749	17 16.0	8.02
	31	.646	.4233	.0186	11.56	1 27.5	.2751	17 11.7	8.00
April	1	+1.652	−0.4214	+0.0192	11.60	1 27.5	1.2754	17 7.4	−7.97
	2	.657	.4195	.0199	11.64	1 27.6	.2757	17 3.2	7.94
	3	.663	.4175	.0206	11.68	1 27.6	.2760	16 58.9	7.90
	4	.668	.4155	.0214	11.72	1 27.6	.2764	16 54.7	7.87
	5	.674	.4135	.0222	11.76	1 27.7	.2767	16 50.5	7.83
	6	.679	.4115	.0231	11.80	1 27.7	.2771	16 46.3	7.79
	7	.685	.4094	.0240	11.84	1 27.8	.2775	16 42.0	7.75
	8	.691	.4073	.0250	11.88	1 27.8	.2779	16 37.8	7.71
	9	.697	.4052	.0260	11.93	1 27.9	.2783	16 33.7	7.66
	10	.702	.4031	.0271	11.97	1 28.0	.2788	16 29.5	7.61
	11	+1.708	−0.4009	+0.0282	12.01	1 28.0	1.2793	16 25.3	−7.56
	12	.714	.3987	.0293	12.06	1 28.1	.2797	16 21.2	7.50
	13	.720	.3965	.0305	12.10	1 28.2	.2802	16 17.0	7.45
	14	.726	.3943	.0317	12.14	1 28.3	.2807	16 12.9	7.39
	15	.733	.3921	.0330	12.19	1 28.4	.2813	16 8.8	7.33
	16	.739	.3898	.0343	12.24	1 28.5	.2818	16 4.6	7.27
	17	.745	.3875	.0356	12.28	1 28.6	.2823	16 0.5	7.21
	18	.752	.3851	.0369	12.33	1 28.7	.2829	15 56.5	7.14
	19	.758	.3827	.0382	12.38	1 28.8	.2835	15 52.4	7.08
	20	.765	.3803	.0396	12.43	1 28.9	.2840	15 48.3	7.01
	21	+1.771	−0.3778	+0.0410	12.48	1 29.0	1.2846	15 44.3	−6.94
	22	.778	.3753	.0424	12.53	1 29.1	.2852	15 40.3	6.86
	23	.785	.3728	.0438	12.58	1 29.2	.2858	15 36.3	6.79
	24	.791	.3703	.0453	12.63	1 29.3	.2864	15 32.3	6.71
	25	.798	.3677	.0468	12.68	1 29.4	.2870	15 28.3	6.63
	26	.805	.3651	.0483	12.73	1 29.5	.2877	15 24.3	6.55
	27	.812	.3625	.0498	12.78	1 29.6	.2883	15 20.3	6.46
	28	.820	.3599	.0513	12.84	1 29.7	.2889	15 16.4	6.38
	29	.827	.3572	.0529	12.89	1 29.8	.2896	15 12.4	6.29
	30	.834	.3545	.0544	12.94	1 29.9	.2902	15 8.5	6.20
Mai	1	+1.842	−0.3518	+0.0560	13.00	1 30.0	1.2908	15 4.6	−6.11
	2	.849	.3491	.0575	13.05	1 30.1	.2915	15 0.7	6.02
	3	.857	.3463	.0591	13.11	1 30.2	.2921	14 56.8	5.93
	4	.864	.3435	.0606	13.16	1 30.3	.2927	14 52.9	5.83
	5	.872	.3407	.0622	13.22	1 30.3	.2933	14 49.1	5.74
	6	.880	.3379	.0637	13.28	1 30.4	.2940	14 45.2	5.64
	7	.888	.3350	.0652	13.34	1 30.5	.2946	14 41.4	5.54
	8	.896	.3321	.0667	13.39	1 30.5	.2952	14 37.6	5.44
	9	.904	.3292	.0683	13.45	1 30.6	.2958	14 33.8	5.33
	10	.912	.3262	.0698	13.51	1 30.6	.2965	14 30.0	5.23

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	11	+1.921	−0.3232	+0.0713	13″.57	1h30m.7	1.2971	14h26m.2	−5″.12
	12	.929	.3202	.0728	13.63	1 30.7	.2977	14 22.4	5.01
	13	.937	.3172	.0743	13.69	1 30.7	.2983	14 18.7	4.90
	14	.946	.3141	.0757	13.75	1 30.8	.2988	14 14.9	4.79
	15	.954	.3111	.0771	13.81	1 30.8	.2994	14 11.2	4.68
	16	.963	.3080	.0785	13.88	1 30.8	.3000	14 7.5	4.57
	17	.972	.3049	.0799	13.94	1 30.8	.3005	14 3.8	4.46
	18	.981	.3018	.0813	14.00	1 30.8	.3011	14 0.1	4.34
	19	.990	.2987	.0826	14.06	1 30.8	.3016	13 56.4	4.23
	20	1.999	.2955	.0839	14.13	1 30.8	.3022	13 52.7	4.11
	21	+2.008	−0.2924	+0.0852	14.19	1 30.7	1.3027	13 49.0	−3.99
	22	.017	.2892	.0865	14.25	1 30.7	.3032	13 45.4	3.87
	23	.026	.2860	.0877	14.32	1 30.7	.3037	13 41.7	3.75
	24	.035	.2828	.0889	14.38	1 30.6	.3042	13 38.1	3.63
	25	.045	.2795	.0901	14.45	1 30.6	.3046	13 34.4	3.50
	26	.054	.2763	.0912	14.51	1 30.5	.3051	13 30.8	3.38
	27	.064	.2731	.0923	14.58	1 30.4	.3055	13 27.2	3.26
	28	.073	.2698	.0934	14.64	1 30.3	.3060	13 23.6	3.13
	29	.083	.2666	.0944	14.71	1 30.3	.3064	13 20.0	3.00
	30	.092	.2633	.0954	14.77	1 30.2	.3067	13 16.4	2.88
	31	+2.102	−0.2600	+0.0964	14.84	1 30.1	1.3071	13 12.8	−2.75
Juni	1	.112	.2567	.0973	14.90	1 30.0	.3075	13 9.3	2.62
	2	.122	.2534	.0982	14.97	1 29.8	.3079	13 5.7	2.49
	3	.131	.2501	.0990	15.04	1 29.7	.3082	13 2.1	2.36
	4	.141	.2468	.0998	15.10	1 29.6	.3085	12 58.6	2.23
	5	.151	.2435	.1006	15.17	1 29.4	.3088	12 55.0	2.10
	6	.161	.2402	.1013	15.23	1 29.3	.3091	12 51.5	1.97
	7	.171	.2369	.1020	15.30	1 29.1	.3094	12 47.9	1.84
	8	.181	.2336	.1026	15.37	1 28.9	.3096	12 44.4	1.70
	9	.191	.2303	.1032	15.43	1 28.8	.3098	12 40.9	1.57
	10	+2.201	−0.2270	+0.1038	15.50	1 28.6	1.3100	12 37.3	−1.44
	11	.212	.2237	.1043	15.57	1 28.4	.3102	12 33.8	1.30
	12	.222	.2204	.1047	15.63	1 28.2	.3104	12 30.3	1.17
	13	.232	.2171	.1051	15.70	1 28.0	.3106	12 26.8	1.03
	14	.242	.2138	.1054	15.77	1 27.8	.3107	12 23.3	0.90
	15	.252	.2105	.1057	15.83	1 27.6	.3108	12 19.8	0.77
	16	.263	.2072	.1059	15.90	1 27.4	.3109	12 16.3	0.63
	17	.273	.2039	.1061	15.96	1 27.1	.3110	12 12.8	0.49
	18	.283	.2006	.1063	16.03	1 26.9	.3110	12 9.3	0.36
	19	.293	.1974	.1064	16.09	1 26.6	.3111	12 5.8	0.22
	20	+2.304	−0.1941	+0.1065	16.16	1 26.4	1.3111	12 2.3	−0.09
	21	.314	.1909	.1065	16.22	1 26.1	.3111	11 58.8	+0.05
	22	.324	.1877	.1064	16.29	1 25.9	.3111	11 55.3	0.18
	23	.335	.1845	.1063	16.35	1 25.6	.3111	11 51.8	0.32
	24	.345	.1813	.1062	16.42	1 25.3	.3110	11 48.3	0.45
	25	.355	.1781	.1060	16.48	1 25.1	.3109	11 44.8	0.59
	26	.365	.1749	.1058	16.54	1 24.8	.3108	11 41.3	0.72
	27	.376	.1717	.1055	16.61	1 24.5	.3107	11 37.8	0.86
	28	.386	.1685	.1052	16.67	1 24.2	.3106	11 34.3	0.99
	29	.396	.1654	.1048	16.73	1 23.9	.3104	11 30.7	1.13

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	30	$+2^s.406$	−0.1623	+0.1044	16″.80	$1^h23^m.6$	1.3103	$11^h27^m.2$	+1″.26
Juli	1	.416	.1592	.1039	16.86	1 23.3	.3101	11 23.7	1.40
	2	.426	.1561	.1034	16.92	1 23.0	.3099	11 20.2	1.53
	3	.437	.1530	.1028	16.98	1 22.7	.3097	11 16.7	1.66
	4	.447	.1499	.1022	17.04	1 22.4	.3094	11 13.2	1.80
	5	.457	.1469	.1016	17.11	1 22.0	.3092	11 9.6	1.93
	6	.467	.1439	.1009	17.17	1 21.7	.3089	11 6.1	2.06
	7	.476	.1409	.1001	17.23	1 21.4	.3086	11 2.6	2.19
	8	.486	.1380	.0993	17.28	1 21.0	.3083	10 59.0	2.32
	9	.496	.1351	.0985	17.34	1 20.7	.3080	10 55.5	2.45
	10	+2.506	−0.1322	+0.0977	17.40	1 20.4	1.3076	10 51.9	+2.58
	11	.516	.1293	.0968	17.46	1 20.0	.3073	10 48.4	2.71
	12	.525	.1264	.0959	17.52	1 19.7	.3069	10 44.8	2.83
	13	.535	.1236	.0949	17.57	1 19.3	.3065	10 41.2	2.96
	14	.545	.1207	.0939	17.63	1 19.0	.3061	10 37.6	3.09
	15	.554	.1179	.0928	17.69	1 18.7	.3057	10 34.1	3.21
	16	.563	.1151	.0917	17.74	1 18.3	.3053	10 30.5	3.34
	17	.573	.1123	.0906	17.80	1 18.0	.3048	10 26.9	3.46
	18	.582	.1096	.0894	17.85	1 17.6	.3043	10 23.3	3.58
	19	.591	.1069	.0882	17.91	1 17.3	.3039	10 19.6	3.70
	20	+2.600	−0.1042	+0.0870	17.96	1 16.9	1.3034	10 16.0	+3.82
	21	.610	.1015	.0858	18.01	1 16.6	.3029	10 12.4	3.94
	22	.619	.0989	.0845	18.07	1 16.2	.3024	10 8.7	4.06
	23	.628	.0963	.0832	18.12	1 15.9	.3019	10 5.1	4.18
	24	.636	.0937	.0819	18.17	1 15.5	.3013	10 1.4	4.30
	25	.645	.0912	.0805	18.22	1 15.2	.3008	9 57.8	4.41
	26	.654	.0887	.0791	18.27	1 14.8	.3002	9 54.1	4.52
	27	.663	.0862	.0777	18.32	1 14.5	.2997	9 50.4	4.64
	28	.671	.0837	.0763	18.37	1 14.1	.2991	9 46.7	4.75
	29	.680	.0812	.0749	18.42	1 13.8	.2985	9 43.0	4.86
	30	+2.688	−0.0788	+0.0735	18.47	1 13.4	1.2979	9 39.2	+4.97
	31	.696	.0764	.0720	18.52	1 13.1	.2973	9 35.5	5.07
August	1	.704	.0740	.0705	18.57	1 12.7	.2967	9 31.8	5.18
	2	.713	.0717	.0690	18.61	1 12.4	.2961	9 28.0	5.28
	3	.721	.0694	.0675	18.66	1 12.1	.2955	9 24.2	5.39
	4	.729	.0671	.0660	18.71	1 11.8	.2949	9 20.4	5.49
	5	.737	.0648	.0644	18.75	1 11.4	.2943	9 16.6	5.59
	6	.744	.0626	.0629	18.80	1 11.1	.2937	9 12.8	5.69
	7	.752	.0604	.0614	18.84	1 10.8	.2931	9 9.0	5.78
	8	.760	.0582	.0599	18.88	1 10.5	.2924	9 5.2	5.88
	9	+2.767	−0.0560	+0.0583	18.93	1 10.2	1.2918	9 1.3	+5.97
	10	.775	.0539	.0568	18.97	1 9.9	.2912	8 57.5	6.06
	11	.782	.0518	.0553	19.01	1 9.6	.2905	8 53.6	6.15
	12	.789	.0497	.0538	19.06	1 9.3	.2899	8 49.7	6.24
	13	.796	.0476	.0523	19.10	1 9.0	.2893	8 45.8	6.33
	14	.804	.0455	.0508	19.14	1 8.7	.2887	8 41.9	6.42
	15	.811	.0435	.0493	19.18	1 8.4	.2880	8 38.0	6.50
	16	.818	.0415	.0478	19.22	1 8.1	.2874	8 34.1	6.58
	17	.824	.0395	.0463	19.26	1 7.8	.2868	8 30.2	6.66
	18	.831	.0376	.0449	19.30	1 7.5	.2862	8 26.2	6.74

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	19	+2.838	−0.0356	+0.0434	19.″34	$1^h\ 7^m.3$	1.2856	$8^h 22^m.2$	+6.″81
	20	.845	.0337	.0420	19.38	1 7.0	.2850	8 18.2	6.89
	21	.851	.0318	.0406	19.41	1 6.7	.2844	8 14.2	6.96
	22	.858	.0299	.0392	19.45	1 6.5	.2838	8 10.2	7.03
	23	.864	.0280	.0378	19.49	1 6.3	.2833	8 6.2	7.10
	24	.870	.0262	.0365	19.53	1 6.0	.2827	8 2.2	7.17
	25	.877	.0244	.0352	19.56	1 5.8	.2822	7 58.1	7.23
	26	.883	.0226	.0339	19.60	1 5.6	.2816	7 54.1	7.29
	27	.889	.0208	.0326	19.64	1 5.3	.2811	7 50.0	7.35
	28	.895	.0190	.0314	19.67	1 5.1	.2806	7 45.9	7.41
	29	+2.901	−0.0172	+0.0302	19.71	1 4.9	1.2801	7 41.8	+7.47
	30	.907	.0155	.0291	19.74	1 4.7	.2796	7 37.7	7.52
	31	.912	.0137	.0280	19.78	1 4.5	.2791	7 33.6	7.57
Septbr.	1	.918	.0120	.0269	19.81	1 4.4	.2787	7 29.5	7.62
	2	.924	.0103	.0259	19.85	1 4.2	.2782	7 25.4	7.67
	3	.930	.0086	.0249	19.88	1 4.0	.2778	7 21.2	7.72
	4	.935	.0069	.0239	19.91	1 3.8	.2774	7 17.1	7.76
	5	.941	.0052	.0230	19.95	1 3.7	.2770	7 12.9	7.80
	6	.946	.0035	.0221	19.98	1 3.5	.2767	7 8.7	7.84
	7	.952	.0018	.0213	20.02	1 3.4	.2763	7 4.6	7.88
	8	+2.957	−0.0002	+0.0205	20.05	1 3.3	1.2760	7 0.4	+7.91
	9	.963	+0.0015	.0198	20.08	1 3.1	.2757	6 56.2	7.94
	10	.968	.0031	.0191	20.11	1 3.0	.2754	6 52.0	7.97
	11	.973	.0048	.0184	20.15	1 2.9	.2751	6 47.7	8.00
	12	.978	.0064	.0178	20.18	1 2.8	.2749	6 43.5	8.02
	13	.984	.0081	.0173	20.21	1 2.7	.2746	6 39.3	8.05
	14	.989	.0097	.0168	20.25	1 2.6	.2744	6 35.1	8.07
	15	.994	.0114	.0164	20.28	1 2.5	.2742	6 30.8	8.09
	16	2.999	.0130	.0161	20.31	1 2.5	.2741	6 26.6	8.10
	17	3.004	.0147	.0158	20.35	1 2.4	.2740	6 22.3	8.12
	18	+3.009	+0.0163	+0.0156	20.38	1 2.3	1.2739	6 18.1	+8.13
	19	.015	.0180	.0154	20.41	1 2.3	.2738	6 13.8	8.14
	20	.020	.0197	.0152	20.45	1 2.2	.2737	6 9.5	8.14
	21	.025	.0214	.0151	20.48	1 2.2	.2737	6 5.3	8.15
	22	.030	.0231	.0151	20.51	1 2.2	.2736	6 1.0	8.15
	23	.035	.0248	.0151	20.55	1 2.1	.2736	5 56.7	8.15
	24	.040	.0265	.0151	20.58	1 2.1	.2737	5 52.4	8.14
	25	.045	.0282	.0152	20.62	1 2.1	.2737	5 48.2	8.14
	26	.050	.0299	.0154	20.65	1 2.1	.2738	5 43.9	8.13
	27	.055	.0316	.0156	20.69	1 2.1	.2739	5 39.6	8.12
	28	+3.060	+0.0333	+0.0159	20.72	1 2.1	1.2740	5 35.3	+8.11
	29	.066	.0351	.0163	20.76	1 2.1	.2742	5 31.0	8.09
	30	.071	.0369	.0167	20.79	1 2.1	.2744	5 26.8	8.08
Oktbr.	1	.076	.0387	.0171	20.83	1 2.2	.2746	5 22.5	8.06
	2	.081	.0406	.0176	20.86	1 2.2	.2748	5 18.2	8.03
	3	.086	.0424	.0182	20.90	1 2.2	.2750	5 13.9	8.01
	4	.092	.0442	.0188	20.94	1 2.3	.2753	5 9.7	7.98
	5	.097	.0460	.0195	20.97	1 2.3	.2756	5 5.4	7.95
	6	.102	.0479	.0202	21.01	1 2.4	.2759	5 1.1	7.92
	7	.108	.0498	.0210	21.05	1 2.4	.2762	4 56.9	7.89

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	8	$+3^s.113$	+0.0517	+0.0218	21.09	$1^h\ 2^m.5$	1.2766	$4^h52^m.6$	+7.85
	9	.119	.0537	.0227	21.13	1 2.6	.2769	4 48.4	7.81
	10	.124	.0557	.0236	21.17	1 2.7	.2773	4 44.1	7.77
	11	.130	.0577	.0246	21.21	1 2.7	.2777	4 39.9	7.73
	12	.136	.0597	.0256	21.25	1 2.8	.2782	4 35.6	7.68
	13	.141	.0617	.0267	21.29	1 2.9	.2786	4 31.4	7.63
	14	.147	.0638	.0278	21.33	1 3.0	.2791	4 27.2	7.58
	15	.153	.0659	.0289	21.37	1 3.1	.2795	4 23.0	7.53
	16	.159	.0680	.0301	21.42	1 3.2	.2800	4 18.8	7.48
	17	.165	.0702	.0313	21.46	1 3.3	.2806	4 14.5	7.42
	18	+3.171	+0.0724	+0.0325	21.50	1 3.4	1.2811	4 10.3	+7.36
	19	.177	.0746	.0338	21.55	1 3.5	.2816	4 6.2	7.30
	20	.183	.0768	.0351	21.59	1 3.6	.2822	4 2.0	7.23
	21	.190	.0791	.0365	21.64	1 3.7	.2827	3 57.8	7.17
	22	.196	.0814	.0379	21.69	1 3.8	.2833	3 53.7	7.10
	23	.202	.0838	.0393	21.73	1 3.9	.2839	3 49.5	7.03
	24	.209	.0862	.0407	21.78	1 4.1	.2845	3 45.4	6.95
	25	.216	.0886	.0421	21.83	1 4.2	.2851	3 41.2	6.88
	26	.222	.0910	.0436	21.88	1 4.3	.2857	3 37.1	6.80
	27	.229	.0935	.0451	21.93	1 4.4	.2863	3 33.0	6.72
	28	+3.236	+0.0960	+0.0466	21.98	1 4.5	1.2870	3 28.9	+6.64
	29	.243	.0985	.0482	22.03	1 4.6	.2876	3 24.8	6.56
	30	.250	.1011	.0497	22.08	1 4.8	.2882	3 20.7	6.47
	31	.257	.1037	.0513	22.13	1 4.9	.2889	3 16.6	6.38
Novbr.	1	.264	.1063	.0529	22.18	1 5.0	.2895	3 12.5	6.29
	2	.272	.1090	.0545	22.24	1 5.1	.2902	3 8.5	6.20
	3	.279	.1117	.0561	22.29	1 5.2	.2909	3 4.4	6.11
	4	.287	.1144	.0577	22.35	1 5.3	.2915	3 0.4	6.01
	5	.294	.1172	.0593	22.40	1 5.4	.2922	2 56.4	5.92
	6	.302	.1200	.0609	22.46	1 5.5	.2928	2 52.4	5.82
	7	+3.310	+0.1228	+0.0625	22.51	1 5.6	1.2935	2 48.4	+5.72
	8	.318	.1256	.0641	22.57	1 5.7	.2941	2 44.4	5.61
	9	.326	.1284	.0657	22.63	1 5.8	.2948	2 40.3	5.51
	10	.334	.1313	.0673	22.68	1 5.9	.2954	2 36.3	5.40
	11	.342	.1342	.0689	22.74	1 6.0	.2961	2 32.4	5.29
	12	.351	.1372	.0704	22.80	1 6.1	.2967	2 28.5	5.18
	13	.359	.1402	.0720	22.86	1 6.2	.2973	2 24.5	5.07
	14	.367	.1432	.0735	22.92	1 6.3	.2980	2 20.6	4.96
	15	.376	.1462	.0750	22.98	1 6.4	.2986	2 16.7	4.85
	16	.385	.1493	.0765	23.05	1 6.4	.2992	2 12.7	4.73
	17	+3.394	+0.1524	+0.0780	23.11	1 6.5	1.2998	2 8.8	+4.61
	18	.402	.1555	.0795	23.17	1 6.6	.3004	2 4.9	4.49
	19	.411	.1586	.0809	23.23	1 6.6	.3009	2 1.0	4.37
	20	.420	1618	.0823	23.30	1 6.7	.3015	1 57.2	4.25
	21	.430	.1650	.0837	23.36	1 6.7	.3021	1 53.3	4.13
	22	.439	.1682	.0851	23.42	1 6.8	.3026	1 49.4	4.00
	23	.448	.1714	.0864	23.49	1 6.8	.3032	1 45.6	3.88
	24	.457	.1747	.0877	23.55	1 6.9	.3037	1 41.7	3.75
	25	.467	.1780	.0890	23.62	1 6.9	.3042	1 37.9	3.62
	26	.477	.1813	.0902	23.69	1 6.9	.3047	1 34.1	3.49

1845

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	27	+3.486	+0.1846	+0.0914	23.75	1h 6m.9	1.3052	1h30m.2	+3.36
	28	.496	.1879	.0926	23.82	1 7.0	.3056	1 26.4	3.23
	29	.506	.1912	.0937	23.89	1 7.0	.3061	1 22.6	3.10
	30	.516	.1946	.0948	23.95	1 7.0	.3065	1 18.8	2.96
Dezbr.	1	.526	.1980	.0959	24.02	1 7.0	.3069	1 15.0	2.83
	2	.536	.2014	.0969	24.09	1 7.0	.3073	1 11.2	2.69
	3	.546	.2048	.0979	24.16	1 7.0	.3077	1 7.4	2.55
	4	.556	.2082	.0988	24.23	1 6.9	.3081	1 3.6	2.42
	5	.566	.2116	.0996	24.29	1 6.9	.3084	0 59.9	2.28
	6	.576	.2150	.1004	24.36	1 6.9	.3087	0 56.1	2.14
	7	+3.586	+0.2184	+0.1012	24.43	1 6.8	1.3090	0 52.3	+2.00
	8	.597	.2218	.1019	24.50	1 6.8	.3093	0 48.6	1.86
	9	.607	.2253	.1026	24.57	1 6.7	.3096	0 44.8	1.72
	10	.617	.2287	.1032	24.64	1 6.7	.3098	0 41.0	1.58
	11	.628	.2322	.1038	24.71	1 6.6	.3100	0 37.3	1.44
	12	.638	.2356	.1043	24.78	1 6.5	.3102	0 33.5	1.29
	13	.649	.2391	.1047	24.85	1 6.5	.3104	0 29.8	1.15
	14	.659	.2425	.1051	24.92	1 6.4	.3106	0 26.0	1.01
	15	.670	.2460	.1055	24.98	1 6.3	.3107	0 22.3	0.86
	16	.681	.2494	.1058	25.05	1 6.2	.3108	0 18.6	0.72
	17	+3.691	+0.2529	+0.1060	25.12	1 6.1	1.3109	0 14.8	+0.57
	18	.702	.2563	.1062	25.19	1 6.0	.3110	0 11.1	0.43
	19	.712	.2597	.1063	25.26	1 5.9	.3111	0 7.4	0.29
	20	.723	.2631	.1064	25.33	1 5.8	.3111	0 3.6	+0.14
	21	.734	.2665	.1064	25.40	1 5.7	.3111	23 59.9	0.00
	22	.744	.2699	.1064	25.46	1 5.5	.3111	23 56.1	−0.15
	23	.755	.2733	.1063	25.53	1 5.4	.3111	23 52.4	0.29
	24	.766	.2767	.1062	25.60	1 5.3	.3110	23 48.7	0.44
	25	.776	.2801	.1060	25.67	1 5.1	.3109	23 44.9	0.58
	26	.787	.2834	.1058	25.73	1 5.0	.3108	23 41.2	0.73
	27	+3.797	+0.2867	+0.1055	25.80	1 4.8	1.3107	23 37.4	−0.87
	28	.808	.2900	.1052	25.87	1 4.7	.3106	23 33.7	1.02
	29	.819	.2933	.1048	25.93	1 4.5	.3104	23 29.9	1.16
	30	.829	.2966	.1043	26.00	1 4.3	.3102	23 26.2	1.30
	31	.840	.2999	.1038	26.07	1 4.1	.3100	23 22.4	1.45

1846

Januar	1	+0.779	−0.5608	+0.1032	8.81	3h39m.4	1.3098	23h18m.6	−1.59
	2	.789	.5589	.1026	8.84	3 38.0	.3096	23 14.9	1.73
	3	.799	.5570	.1019	8.88	3 36.5	.3093	23 11.1	1.87
	4	.810	.5552	.1012	8.92	3 35.1	.3090	23 7.3	2.01
	5	.820	.5534	.1004	8.95	3 33.6	.3087	23 3.6	2.15
	6	.830	.5516	.0995	8.99	3 32.2	.3084	22 59.8	2.29
	7	.840	.5498	.0986	9.03	3 30.8	.3080	22 56.0	2.43
	8	.850	.5481	.0977	9.06	3 29.4	.3077	22 52.2	2.57
	9	.860	.5463	.0967	9.10	3 28.0	.3073	22 48.4	2.71
	10	.870	.5445	.0957	9.13	3 26.6	.3069	22 44.6	2.84

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	11	+0.880	−0.5428	+0.0947	9.″17	$3^h25^m.2$	1.3065	$22^h40^m.7$	−2.″98
	12	.890	.5411	.0936	9.20	3 23.8	.3060	22 36.9	3.11
	13	.900	.5394	.0925	9.24	3 22.5	.3056	22 33.1	3.25
	14	.910	.5378	.0913	9.27	3 21.1	.3051	22 29.3	3.38
	15	.919	.5361	.0901	9.30	3 19.8	.3046	22 25.4	3.51
	16	.929	.5345	.0889	9.33	3 18.5	.3041	22 21.6	3.64
	17	.938	.5328	.0876	9.37	3 17.1	.3036	22 17.7	3.77
	18	.948	.5312	.0863	9.40	3 15.8	.3031	22 13.8	3.90
	19	.957	.5296	.0849	9.43	3 14.6	.3026	22 10.0	4.02
	20	.966	.5280	.0835	9.46	3 13.3	.3020	22 6.1	4.15
	21	+0.975	−0.5264	+0.0821	9.50	3 12.0	1.3014	22 2.2	−4.27
	22	.984	.5249	.0806	9.53	3 10.8	.3009	21 58.3	4.39
	23	0.993	.5234	.0792	9.56	3 9.5	.3003	21 54.3	4.51
	24	1.002	.5219	.0777	9.59	3 8.3	.2997	21 50.4	4.63
	25	.011	.5204	.0762	9.62	3 7.1	.2991	21 46.5	4.75
	26	.020	.5190	.0747	9.64	3 5.9	.2985	21 42.5	4.87
	27	.028	.5175	.0732	9.67	3 4.7	.2978	21 38.6	4.98
	28	.037	.5161	.0716	9.70	3 3.6	.2972	21 34.6	5.10
	29	.045	.5147	.0700	9.73	3 2.4	.2966	21 30.6	5.21
	30	.053	.5133	.0684	9.76	3 1.3	.2959	21 26.7	5.32
	31	+1.062	−0.5119	+0.0668	9.79	3 0.2	1.2953	21 22.7	−5.43
Februar	1	.070	.5105	.0652	9.82	2 59.1	.2946	21 18.6	5.53
	2	.078	.5091	.0636	9.84	2 58.0	.2939	21 14.6	5.64
	3	.085	.5078	.0620	9.87	2 57.0	.2933	21 10.6	5.74
	4	.093	.5064	.0604	9.90	2 55.9	.2926	21 6.5	5.84
	5	.101	.5051	.0588	9.92	2 54.9	.2920	21 2.5	5.94
	6	.108	.5038	.0572	9.95	2 53.9	.2913	20 58.4	6.04
	7	.116	.5025	.0556	9.98	2 52.9	.2907	20 54.3	6.13
	8	.123	.5012	.0540	10.00	2 51.9	.2900	20 50.3	6.23
	9	.130	.4999	.0524	10.03	2 50.9	.2893	20 46.2	6.32
	10	+1.138	−0.4986	+0.0508	10.05	2 50.0	1.2887	20 42.1	−6.41
	11	.145	.4974	.0492	10.08	2 49.1	.2880	20 37.9	6.50
	12	.152	.4961	.0476	10.10	2 48.2	.2874	20 33.8	6.59
	13	.159	.4949	.0461	10.13	2 47.3	.2867	20 29.7	6.67
	14	.165	.4936	.0445	10.15	2 46.4	.2861	20 25.5	6.75
	15	.172	.4924	.0430	10.18	2 45.5	.2855	20 21.4	6.83
	16	.179	.4912	.0415	10.20	2 44.7	.2849	20 17.2	6.91
	17	.185	.4900	.0401	10.23	2 43.8	.2843	20 13.0	6.98
	18	.192	.4888	.0386	10.25	2 43.0	.2837	20 8.8	7.06
	19	.198	.4876	.0372	10.27	2 42.2	.2831	20 4.6	7.13
	20	+1.204	−0.4864	+0.0358	10.30	2 41.5	1.2825	20 0.4	−7.20
	21	.210	.4852	.0345	10.32	2 40.7	.2819	19 56.2	7.26
	22	.217	.4839	.0332	10.35	2 40.0	.2814	19 52.0	7.32
	23	.223	.4827	.0319	10.37	2 39.2	.2808	19 47.7	7.38
	24	.229	.4815	.0307	10.40	2 38.5	.2803	19 43.5	7.44
	25	.235	.4803	.0295	10.42	2 37.9	.2798	19 39.2	7.50
	26	.240	.4791	.0283	10.45	2 37.2	.2793	19 35.0	7.56
	27	.246	.4779	.0272	10.47	2 36.5	.2788	19 30.7	7.61
	28	.252	.4767	.0261	10.49	2 35.9	.2784	19 26.4	7.66
März	1	.257	.4755	.0251	10.52	2 35.3	.2779	19 22.1	7.71

1846

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	2	+1.263	−0.4742	+0.0241	10.54	2h34m.7	1.2775	19h17m.8	−7.75
	3	.268	.4730	.0231	10.57	2 34.1	.2771	19 13.5	7.79
	4	.274	.4718	.0222	10.59	2 33.6	.2767	19 9.2	7.83
	5	.279	.4705	.0213	10.62	2 33.0	.2763	19 4.9	7.87
	6	.285	.4693	.0205	10.64	2 32.5	.2760	19 0.6	7.91
	7	.290	.4680	.0198	10.67	2 32.0	.2757	18 56.3	7.94
	8	.295	.4667	.0191	10.69	2 31.5	.2754	18 52.0	7.97
	9	.300	.4654	.0185	10.72	2 31.0	.2751	18 47.7	8.00
	10	.306	.4641	.0179	10.75	2 30.5	.2749	18 43.4	8.02
	11	.311	.4628	.0173	10.77	2 30.0	.2746	18 39.0	8.05
	12	+1.316	−0.4615	+0.0168	10.80	2 29.6	1.2744	18 34.7	−8.07
	13	.321	.4602	.0164	10.82	2 29.2	.2742	18 30.4	8.09
	14	.326	.4589	.0160	10.85	2 28.8	.2741	18 26.0	8.10
	15	.331	.4575	.0157	10.88	2 28.4	.2739	18 21.7	8.12
	16	.336	.4561	.0154	10.91	2 28.0	.2738	18 17.4	8.13
	17	.341	.4547	.0152	10.93	2 27.7	.2737	18 13.1	8.14
	18	.346	.4533	.0151	10.96	2 27.3	.2737	18 8.7	8.14
	19	.351	.4519	.0150	10.99	2 27.0	.2737	18 4.4	8.15
	20	.356	.4505	.0150	11.02	2 26.7	.2736	18 0.1	8.15
	21	.361	.4490	.0150	11.05	2 26.4	.2737	17 55.7	8.15
	22	+1.366	−0.4475	+0.0151	11.08	2 26.1	1.2737	17 51.4	−8.14
	23	.371	.4459	.0152	11.11	2 25.8	.2737	17 47.1	8.14
	24	.376	.4444	.0154	11.14	2 25.5	.2738	17 42.8	8.13
	25	.381	.4428	.0157	11.17	2 25.2	.2739	17 38.5	8.12
	26	.386	.4413	.0160	11.20	2 25.0	.2741	17 34.2	8.10
	27	.391	.4397	.0164	11.24	2 24.7	.2742	17 29.9	8.09
	28	.396	.4381	.0168	11.27	2 24.5	.2744	17 25.6	8.07
	29	.401	.4364	.0173	11.30	2 24.3	.2746	17 21.3	8.05
	30	.406	.4347	.0178	11.34	2 24.1	.2748	17 17.0	8.03
	31	.411	.4330	.0184	11.37	2 23.9	.2751	17 12.7	8.00
April	1	+1.416	−0.4313	+0.0190	11.41	2 23.7	1.2754	17 8.5	−7.98
	2	.422	.4295	.0197	11.44	2 23.5	.2756	17 4.2	7.95
	3	.427	.4277	.0204	11.48	2 23.3	.2759	17 0.0	7.91
	4	.432	.4259	.0212	11.51	2 23.2	.2763	16 55.7	7.88
	5	.437	.4241	.0220	11.55	2 23.0	.2766	16 51.5	7.84
	6	.443	.4222	.0229	11.59	2 22.8	.2770	16 47.3	7.80
	7	.448	.4203	.0238	11.62	2 22.7	.2774	16 43.1	7.76
	8	.454	.4184	.0248	11.66	2 22.5	.2778	16 38.9	7.72
	9	.459	.4164	.0258	11.70	2 22.4	.2782	16 34.7	7.67
	10	.465	.4144	.0269	11.74	2 22.3	.2787	16 30.5	7.62
	11	+1.470	−0.4124	+0.0280	11.78	2 22.1	1.2791	16 26.3	−7.57
	12	.476	.4103	.0291	11.82	2 22.0	.2796	16 22.2	7.52
	13	.482	.4082	.0302	11.87	2 21.9	.2801	16 18.0	7.46
	14	.488	.4061	.0314	11.91	2 21.8	.2806	16 13.9	7.41
	15	.494	.4040	.0326	11.95	2 21.7	.2811	16 9.7	7.35
	16	.500	.4018	.0339	11.99	2 21.6	.2817	16 5.6	7.29
	17	.506	.3996	.0352	12.04	2 21.5	.2822	16 1.5	7.23
	18	.512	.3974	.0365	12.08	2 21.4	.2828	15 57.5	7.16
	19	.518	.3952	.0379	12.13	2 21.2	.2833	15 53.4	7.09
	20	.524	.3929	.0393	12.17	2 21.1	.2839	15 49.3	7.02

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	21	+1.530	−0.3906	+0.0407	12.22	$2^h21^m.0$	1.2845	$15^h45^m.3$	−6.95
	22	.537	.3882	.0421	12.27	2 20.9	.2851	15 41.2	6.88
	23	.543	.3858	.0435	12.31	2 20.8	.2857	15 37.2	6.80
	24	.550	.3834	.0450	12.36	2 20.7	.2863	15 33.2	6.73
	25	.557	.3810	.0465	12.41	2 20.5	.2869	15 29.2	6.65
	26	.563	.3785	.0480	12.46	2 20.4	.2875	15 25.2	6.57
	27	.570	.3760	.0495	12.51	2 20.3	.2881	15 21.3	6.48
	28	.577	.3735	.0510	12.56	2 20.2	.2888	15 17.3	6.40
	29	.584	.3710	.0525	12.61	2 20.0	.2894	15 13.4	6.31
	30	.591	.3684	.0540	12.66	2 19.9	.2900	15 9.5	6.23
Mai	1	+1.598	−0.3659	+0.0556	12.72	2 19.8	1.2907	15 5.5	−6.14
	2	.606	.3633	.0571	12.77	2 19.6	.2913	15 1.6	6.04
	3	.613	.3607	.0587	12.82	2 19.5	.2919	14 57.7	5.95
	4	.620	.3580	.0602	12.87	2 19.3	.2926	14 53.9	5.86
	5	.628	.3553	.0618	12.93	2 19.2	.2932	14 50.0	5.76
	6	.635	.3526	.0633	12.98	2 19.0	.2938	14 46.2	5.66
	7	.643	.3499	.0648	13.04	2 18.9	.2944	14 42.3	5.56
	8	.651	.3471	.0663	13.09	2 18.7	.2951	14 38.5	5.46
	9	.658	.3443	.0679	13.15	2 18.5	.2957	14 34.7	5.36
	10	.666	.3415	.0694	13.20	2 18.4	.2963	14 30.9	5.25
	11	+1.674	−0.3387	+0.0709	13.26	2 18.2	1.2969	14 27.1	−5.15
	12	.682	.3359	.0724	13.32	2 18.0	.2975	14 23.3	5.04
	13	.691	.3331	.0739	13.37	2 17.8	.2981	14 19.6	4.93
	14	.699	.3302	.0754	13.43	2 17.6	.2987	14 15.8	4.82
	15	.707	.3273	.0768	13.49	2 17.4	.2993	14 12.1	4.71
	16	.716	.3244	.0782	13.55	2 17.2	.2999	14 8.4	4.60
	17	.724	.3215	.0796	13.60	2 17.0	.3004	14 4.7	4.48
	18	.733	.3186	.0809	13.66	2 16.8	.3010	14 1.0	4.37
	19	.742	.3157	.0823	13.72	2 16.5	.3015	13 57.3	4.25
	20	.750	.3127	.0836	13.78	2 16.3	.3020	13 53.6	4.14
	21	+1.759	−0.3098	+0.0849	13.84	2 16.1	1.3026	13 49.9	−4.02
	22	.768	.3068	.0862	13.90	2 15.8	.3031	13 46.2	3.90
	23	.777	.3038	.0875	13.96	2 15.5	.3036	13 42.6	3.78
	24	.786	.3008	.0887	14.02	2 15.3	.3041	13 38.9	3.66
	25	.795	.2978	.0899	14.08	2 15.0	.3045	13 35.3	3.53
	26	.804	.2948	.0910	14.14	2 14.7	.3050	13 31.7	3.41
	27	.813	.2918	.0921	14.20	2 14.5	.3054	13 28.1	3.29
	28	.822	.2888	.0932	14.26	2 14.2	.3059	13 24.5	3.16
	29	.832	.2858	.0942	14.32	2 13.9	.3063	13 20.9	3.03
	30	.841	.2828	.0952	14.38	2 13.6	.3067	13 17.3	2.91
	31	+1.851	−0.2797	+0.0962	14.44	2 13.3	1.3070	13 13.7	−2.78
Juni	1	.860	.2767	.0971	14.50	2 12.9	.3074	13 10.1	2.65
	2	.870	.2737	.0980	14.57	2 12.6	.3078	13 6.6	2.52
	3	.879	.2706	.0989	14.63	2 12.3	.3081	13 3.0	2.39
	4	.889	.2676	.0997	14.69	2 12.0	.3084	12 59.4	2.26
	5	.898	.2645	.1005	14.75	2 11.6	.3087	12 55.9	2.13
	6	.908	.2615	.1012	14.81	2 11.3	.3090	12 52.3	2.00
	7	.918	.2584	.1019	14.87	2 10.9	.3093	12 48.8	1.87
	8	.928	.2554	.1025	14.93	2 10.5	.3095	12 45.3	1.74
	9	.938	.2523	.1031	14.99	2 10.2	.3098	12 41.7	1.60

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	10	+1.948	−0.2493	+0.1036	15.05	$2^h\ 9^m.8$	1.3100	$12^h38^m.2$	−1.47
	11	.958	.2463	.1041	15.11	2 9.4	.3102	12 34.7	1.34
	12	.968	.2433	.1046	15.17	2 9.0	.3104	12 31.1	1.20
	13	.977	.2402	.1050	15.23	2 8.6	.3105	12 27.6	1.07
	14	.987	.2372	.1053	15.29	2 8.2	.3107	12 24.1	0.93
	15	1.997	.2342	.1056	15.35	2 7.8	.3108	12 20.6	0.80
	16	2.007	.2313	.1059	15.41	2 7.4	.3109	12 17.1	0.66
	17	.017	.2283	.1061	15.47	2 7.0	.3110	12 13.6	0.53
	18	.027	.2253	.1063	15.53	2 6.6	.3110	12 10.1	0.39
	19	.037	.2224	.1064	15.59	2 6.2	.3111	12 6.6	0.26
	20	+2.047	−0.2194	+0.1065	15.65	2 5.7	1.3111	12 3.1	−0.12
	21	.057	.2165	.1065	15.71	2 5.3	.3111	11 59.6	+0.01
	22	.067	.2136	.1065	15.77	2 4.9	.3111	11 56.1	0.15
	23	.078	.2107	.1064	15.83	2 4.4	.3111	11 52.6	0.29
	24	.088	.2078	.1063	15.88	2 4.0	.3110	11 49.1	0.42
	25	.098	.2050	.1061	15.94	2 3.5	.3110	11 45.6	0.56
	26	.108	.2021	.1059	16.00	2 3.1	.3109	11 42.1	0.69
	27	.118	.1993	.1056	16.06	2 2.6	.3108	11 38.6	0.83
	28	.128	.1964	.1053	16.11	2 2.1	.3106	11 35.1	0.96
	29	.138	.1936	.1049	16.17	2 1.7	.3105	11 31.6	1.10
	30	+2.148	−0.1908	+0.1045	16.22	2 1.2	1.3103	11 28.1	+1.23
Juli	1	.157	.1881	.1040	16.28	2 0.7	.3101	11 24.6	1.37
	2	.167	.1853	.1035	16.34	2 0.3	.3099	11 21.1	1.50
	3	.177	.1826	.1029	16.39	1 59.8	.3097	11 17.5	1.63
	4	.187	.1799	.1023	16.45	1 59.3	.3095	11 14.0	1.76
	5	.197	.1772	.1017	16.50	1 58.8	.3092	11 10.5	1.90
	6	.206	.1745	.1010	16.55	1 58.4	.3090	11 7.0	2.03
	7	.216	.1719	.1003	16.61	1 57.9	.3087	11 3.4	2.16
	8	.226	.1693	.0995	16.66	1 57.4	.3084	10 59.9	2.29
	9	.235	.1667	.0987	16.71	1 56.9	.3081	10 56.3	2.42
	10	+2.245	−0.1641	+0.0979	16.76	1 56.4	1.3077	10 52.8	+2.55
	11	.254	.1616	.0970	16.81	1 56.0	.3074	10 49.2	2.68
	12	.264	.1590	.0961	16.86	1 55.5	.3070	10 45.7	2.81
	13	.273	.1565	.0951	16.91	1 55.0	.3066	10 42.1	2.94
	14	.282	.1540	.0941	16.96	1 54.5	.3062	10 38.5	3.06
	15	.292	.1516	.0930	17.01	1 54.0	.3058	10 34.9	3.18
	16	.301	.1492	.0919	17.06	1 53.5	.3054	10 31.4	3.31
	17	.310	.1478	.0908	17.11	1 53.0	.3049	10 27.8	3.43
	18	.319	.1454	.0897	17.16	1 52.5	.3045	10 24.1	3.55
	19	.328	.1421	.0885	17.20	1 52.1	.3040	10 20.5	3.67
	20	+2.337	−0.1397	+0.0873	17.25	1 51.6	1.3035	10 16.9	+3.79
	21	.346	.1374	.0851	17.30	1 51.1	.3030	10 13.3	3.91
	22	.355	.1351	.0838	17.34	1 50.6	.3025	10 9.6	4.03
	23	.363	.1329	.0835	17.39	1 50.1	.3020	10 6.0	4.15
	24	.372	.1307	.0822	17.43	1 49.7	.3015	10 2.3	4.27
	25	.381	.1285	.0808	17.48	1 49.2	.3009	9 58.6	4.38
	26	.389	.1263	.0794	17.52	1 48.7	.3004	9 55.0	4.50
	27	.398	.1241	.0780	17.56	1 48.3	.2998	9 51.3	4.61
	28	.406	.1220	.0766	17.61	1 47.8	.2992	9 47.6	4.72
	29	.414	.1199	.0752	17.65	1 47.3	.2987	9 43.9	4.83

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	30	+2.422	−0.1178	+0.0738	17.69	1^h46^m9	1.2981	9^h40^m1	+4.94
	31	.430	.1157	.0723	17.73	1 46.4	.2975	9 36.4	5.05
August	1	.438	.1136	.0708	17.77	1 45.9	.2969	9 32.7	5.15
	2	.446	.1116	.0693	17.81	1 45.5	.2963	9 28.9	5.26
	3	.454	.1096	.0678	17.85	1 45.0	.2957	9 25.1	5.36
	4	.462	.1076	.0663	17.89	1 44.6	.2951	9 21.4	5.46
	5	.470	.1057	.0648	17.93	1 44.2	.2945	9 17.6	5.56
	6	.477	.1038	.0633	17.97	1 43.7	.2938	9 13.8	5.66
	7	.485	.1019	.0618	18.01	1 43.3	.2932	9 9.9	5.76
	8	.492	.1000	.0603	18.05	1 42.9	.2926	9 6.1	5.85
	9	+2.500	−0.0981	+0.0587	18.08	1 42.5	1.2920	9 2.3	+5.95
	10	.507	.0963	.0572	18.12	1 42.1	.2913	8 58.4	6.04
	11	.514	.0945	.0557	18.16	1 41.6	.2907	8 54.6	6.13
	12	.521	.0927	.0542	18.19	1 41.2	.2901	8 50.7	6.22
	13	.528	.0909	.0526	18.23	1 40.8	.2894	8 46.8	6.31
	14	.535	.0891	.0511	18.26	1 40.4	.2888	8 42.9	6.39
	15	.542	.0874	.0496	18.30	1 40.1	.2882	8 39.0	6.48
	16	.548	.0857	.0481	18.33	1 39.7	.2876	8 35.0	6.56
	17	.555	.0840	.0466	18.37	1 39.3	.2870	8 31.1	6.64
	18	.562	.0824	.0452	18.40	1 38.9	.2864	8 27.2	6.72
	19	+2.568	−0.0807	+0.0437	18.43	1 38.6	1.2858	8 23.2	+6.80
	20	.575	.0791	.0423	18.47	1 38.2	.2852	8 19.2	6.87
	21	.581	.0774	.0409	18.50	1 37.9	.2846	8 15.2	6.94
	22	.587	.0758	.0395	18.53	1 37.5	.2840	8 11.2	7.01
	23	.593	.0742	.0381	18.56	1 37.2	.2834	8 7.2	7.08
	24	.599	.0726	.0368	18.60	1 36.9	.2828	8 3.2	7.15
	25	.605	.0710	.0355	18.63	1 36.5	.2823	7 59.1	7.22
	26	.611	.0695	.0342	18.66	1 36.2	.2818	7 55.1	7.28
	27	.617	.0680	.0329	18.69	1 35.9	.2812	7 51.0	7.34
	28	.623	.0665	.0317	18.72	1 35.6	.2807	7 46.9	7.40
	29	+2.629	−0.0649	+0.0305	18.75	1 35.3	1.2802	7 42.8	+7.45
	30	.634	.0634	.0293	18.78	1 35.1	.2797	7 38.7	7.51
	31	.640	.0619	.0282	18.81	1 34.8	.2792	7 34.6	7.56
Septbr.	1	.646	.0604	.0271	18.84	1 34.5	.2788	7 30.5	7.61
	2	.651	.0589	.0261	18.87	1 34.3	.2783	7 26.4	7.66
	3	.657	.0574	.0251	18.90	1 34.0	.2779	7 22.2	7.71
	4	.662	.0560	.0241	18.93	1 33.8	.2775	7 18.1	7.75
	5	.667	.0545	.0232	18.96	1 33.5	.2771	7 13.9	7.79
	6	.673	.0530	.0223	18.99	1 33.3	.2768	7 9.8	7.83
	7	.678	.0515	.0215	19.02	1 33.1	.2764	7 5.6	7.87
	8	+2.683	−0.0501	+0.0207	19.05	1 32.9	1.2761	7 1.4	+7.90
	9	.688	.0486	.0200	19.08	1 32.7	.2758	6 57.2	7.94
	10	.693	.0472	.0193	19.11	1 32.5	.2755	6 53.0	7.97
	11	.698	.0457	.0186	19.14	1 32.3	.2752	6 48.8	7.99
	12	.703	.0442	.0180	19.17	1 32.1	.2749	6 44.5	8.02
	13	.708	.0427	.0175	19.20	1 32.0	.2747	6 40.3	8.04
	14	.713	.0413	.0170	19.22	1 31.8	.2745	6 36.1	8.06
	15	.718	.0398	.0166	19.25	1 31.6	.2743	6 31.8	8.08
	16	.723	.0383	.0162	19.28	1 31.5	.2741	6 27.6	8.10
	17	.728	.0368	.0159	19.31	1 31.3	.2740	6 23.3	8.11

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	18	$+2^s.733$	−0.0353	+0.0156	19″.34	$1^h31^m.2$	1.2739	$6^h19^m.1$	+8″.13
	19	.738	.0338	.0154	19.38	1 31.1	.2738	6 14.8	8.14
	20	.743	.0323	.0152	19.41	1 31.0	.2737	6 10.6	8.14
	21	.748	.0307	.0151	19.44	1 30.9	.2737	6 6.3	8.15
	22	.753	.0292	.0150	19.47	1 30.8	.2736	6 2.0	8.15
	23	.758	.0276	.0150	19.50	1 30.7	.2736	5 57.8	8.15
	24	.762	.0261	.0151	19.53	1 30.6	.2737	5 53.5	8.15
	25	.767	.0245	.0152	19.56	1 30.5	.2737	5 49.2	8.14
	26	.772	.0229	.0154	19.59	1 30.4	.2738	5 44.9	8.13
	27	.777	.0213	.0156	19.62	1 30.3	.2739	5 40.6	8.12
	28	+2.782	−0.0197	+0.0159	19.66	1 30.3	1.2740	5 36.4	+8.11
	29	.787	.0180	.0162	19.69	1 30.2	.2741	5 32.1	8.10
	30	.792	.0163	.0166	19.72	1 30.2	.2743	5 27.8	8.08
Oktbr.	1	.797	.0146	.0170	19.76	1 30.1	.2745	5 23.5	8.06
	2	.802	.0129	.0175	19.79	1 30.1	.2747	5 19.2	8.04
	3	.807	.0112	.0181	19.83	1 30.1	.2750	5 15.0	8.02
	4	.812	.0095	.0187	19.86	1 30.0	.2752	5 10.7	7.99
	5	.817	.0077	.0194	19.90	1 30.0	.2755	5 6.4	7.96
	6	.822	.0059	.0201	19.93	1 30.0	.2758	5 2.2	7.93
	7	.827	.0041	.0209	19.97	1 30.0	.2761	4 57.9	7.90
	8	+2.833	−0.0023	+0.0217	20.01	1 30.0	1.2765	4 53.6	+7.86
	9	.838	−0.0004	.0226	20.04	1 30.0	.2768	4 49.4	7.82
	10	.843	+0.0015	.0235	20.08	1 30.0	.2772	4 45.1	7.78
	11	.849	.0034	.0244	20.12	1 30.0	.2776	4 40.9	7.74
	12	.854	.0053	.0254	20.16	1 30.0	.2781	4 36.7	7.69
	13	.859	.0073	.0264	20.20	1 30.0	.2785	4 32.4	7.65
	14	.865	.0093	.0275	20.24	1 30.1	.2790	4 28.2	7.60
	15	.871	.0113	.0286	20.28	1 30.1	.2794	4 24.0	7.54
	16	.876	.0133	.0298	20.32	1 30.1	.2799	4 19.8	7.49
	17	.882	.0154	.0310	20.36	1 30.1	.2804	4 15.6	7.43
	18	+2.888	+0.0175	+0.0322	20.40	1 30.2	1.2809	4 11.4	+7.37
	19	.894	.0197	.0335	20.45	1 30.2	.2815	4 7.2	7.31
	20	.900	.0219	.0348	20.49	1 30.2	.2820	4 3.0	7.25
	21	.906	.0241	.0361	20.53	1 30.3	.2826	3 58.8	7.18
	22	.912	.0263	.0375	20.58	1 30.3	.2832	3 54.7	7.11
	23	.918	.0286	.0389	20.62	1 30.4	.2837	3 50.5	7.04
	24	.925	.0309	.0403	20.67	1 30.4	.2843	3 46.4	6.97
	25	.931	.0332	.0417	20.72	1 30.4	.2849	3 42.2	6.90
	26	.937	.0356	.0432	20.77	1 30.5	.2855	3 38.1	6.82
	27	.944	.0380	.0447	20.81	1 30.5	.2862	3 34.0	6.74
	28	+2.951	+0.0404	+0.0462	20.86	1 30.6	1.2868	3 29.9	+6.66
	29	.957	.0429	.0478	20.91	1 30.6	.2875	3 25.8	6.58
	30	.964	.0454	.0494	20.96	1 30.6	.2881	3 21.7	6.49
	31	.971	.0479	.0510	21.01	1 30.7	.2887	3 17.6	6.41
Novbr.	1	.978	.0504	.0525	21.06	1 30.7	.2894	3 13.5	6.32
	2	.985	.0530	.0541	21.11	1 30.7	.2900	3 9.5	6.23
	3	2.992	.0556	.0557	21.17	1 30.8	.2907	3 5.4	6.13
	4	3.000	.0582	.0573	21.22	1 30.8	.2914	3 1.4	6.04
	5	.007	.0609	.0589	21.27	1 30.8	.2920	2 57.3	5.94
	6	.015	.0636	.0605	21.33	1 30.9	.2927	2 53.3	5.84

1846

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	$+3^s.022$	+0.0663	+0.0621	21".38	$1^h30^m.9$	1.2933	$2^h49^m.3$	+5".74
	8	.030	.0691	.0637	21.44	1 30.9	.2940	2 45.3	5.64
	9	.038	.0719	.0653	21.49	1 30.9	.2946	2 41.3	5.53
	10	.046	.0747	.0669	21.55	1 31.0	.2953	2 37.4	5.43
	11	.054	.0775	.0685	21.61	1 31.0	.2959	2 33.4	5.32
	12	.062	.0804	.0700	21.66	1 31.0	.2965	2 29.4	5.21
	13	.070	.0833	.0716	21.72	1 31.0	.2972	2 25.5	5.10
	14	.078	.0862	.0731	21.78	1 31.0	.2978	2 21.5	4.99
	15	.086	.0891	.0746	21.84	1 31.0	.2984	2 17.6	4.87
	16	.095	.0921	.0761	21.90	1 31.0	.2990	2 13.7	4.76
	17	+3.103	+0.0951	+0.0776	21.96	1 31.0	1.2996	2 9.8	+4.64
	18	.112	.0981	.0791	22.02	1 31.0	.3002	2 5.9	4.52
	19	.121	.1012	.0806	22.08	1 31.0	.3008	2 2.0	4.40
	20	.130	.1043	.0820	22.14	1 30.9	.3014	1 58.1	4.28
	21	.139	.1074	.0834	22.21	1 30.9	.3020	1 54.2	4.16
	22	.148	.1105	.0848	22.27	1 30.9	.3025	1 50.4	4.03
	23	.157	.1136	.0861	22.33	1 30.8	.3030	1 46.5	3.91
	24	.166	.1168	.0874	22.39	1 30.8	.3036	1 42.7	3.78
	25	.175	.1200	.0887	22.46	1 30.7	.3041	1 38.8	3.65
	26	.185	.1232	.0899	22.52	1 30.7	.3046	1 35.0	3.52
	27	+3.194	+0.1264	+0.0911	22.59	1 30.6	1.3051	1 31.2	+3.39
	28	.203	.1296	.0923	22.65	1 30.5	.3055	1 27.3	3.26
	29	.213	.1328	.0934	22.71	1 30.4	.3060	1 23.5	3.13
	30	.223	.1360	.0945	22.78	1 30.4	.3064	1 19.7	3.00
Dezbr.	1	.232	.1392	.0956	22.84	1 30.3	.3068	1 15.9	2.86
	2	.242	.1425	.0966	22.91	1 30.2	.3072	1 12.1	2.72
	3	.252	.1457	.0976	22.97	1 30.1	.3076	1 8.3	2.59
	4	.262	.1490	.0986	23.04	1 30.0	.3080	1 4.5	2.45
	5	.272	.1523	.0995	23.11	1 29.9	.3083	1 0.8	2.31
	6	.282	.1556	.1003	23.17	1 29.8	.3087	0 57.0	2.17
	7	+3.292	+0.1589	+0.1011	23.24	1 29.6	1.3090	0 53.2	+2.03
	8	.302	.1622	.1018	23.30	1 29.5	.3093	0 49.5	1.89
	9	.312	.1655	.1025	23.37	1 29.4	.3095	0 45.7	1.75
	10	.322	.1688	.1031	23.44	1 29.2	.3098	0 41.9	1.61
	11	.332	.1721	.1037	23.50	1 29.1	.3100	0 38.2	1.47
	12	.343	.1754	.1042	23.57	1 28.9	.3102	0 34.4	1.33
	13	.353	.1787	.1046	23.63	1 28.8	.3104	0 30.7	1.18
	14	.363	.1819	.1050	23.70	1 28.6	.3105	0 26.9	1.04
	15	.374	.1852	.1054	23.76	1 28.4	.3107	0 23.2	0.90
	16	.384	.1884	.1057	23.83	1 28.3	.3108	0 19.5	0.75
	17	+3.395	+0.1917	+0.1060	23.89	1 28.1	1.3109	0 15.7	+0.61
	18	.405	.1949	.1062	23.96	1 27.9	.3110	0 12.0	0.46
	19	.415	.1982	.1064	24.03	1 27.7	.3111	0 8.3	0.32
	20	.426	.2014	.1065	24.09	1 27.5	.3111	0 4.5	0.17
	21	.436	.2047	.1065	24.16	1 27.3	.3111	0 0.8	+0.03
	22	.447	.2079	.1065	24.22	1 27.1	.3111	23 57.0	−0.11
	23	.457	.2111	.1064	24.29	1 26.9	.3111	23 53.3	0.26
	24	.468	.2143	.1062	24.35	1 26.7	.3110	23 49.6	0.40
	25	.478	.2175	.1060	24.41	1 26.4	.3110	23 45.8	0.55
	26	.488	.2206	.1058	24.48	1 26.2	.3109	23 42.1	0.69

1846

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	+3s.499	+0.2238	+0.1055	24″.54	1h26m.0	1.3108	23h38m.3	−0″.84
	28	.509	.2269	.1052	24.60	1 25.7	.3106	23 34.6	0.98
	29	.520	.2300	.1048	24.66	1 25.5	.3105	23 30.8	1.13
	30	.530	.2331	.1044	24.73	1 25.3	.3103	23 27.1	1.27
	31	.540	.2362	.1040	24.79	1 25.0	.3101	23 23.3	1.41

1847

Januar	1	+0s.479	−0.5259	+0.1033	9″.51	4h43m.4	1.3099	23h19m.6	−1″.55
	2	.489	.5250	.1027	9.52	4 41.9	.3096	23 15.8	1.70
	3	.499	.5241	.1020	9.54	4 40.3	.3094	23 12.0	1.84
	4	.510	.5232	.1013	9.56	4 38.8	.3091	23 8.3	1.98
	5	.520	.5223	.1006	9.58	4 37.3	.3088	23 4.5	2.12
	6	.530	.5215	.0998	9.59	4 35.8	.3085	23 0.7	2.26
	7	.540	.5207	.0989	9.61	4 34.3	.3081	22 56.9	2.40
	8	.549	.5199	.0980	9.63	4 32.8	.3078	22 53.1	2.53
	9	.559	.5191	.0970	9.64	4 31.3	.3074	22 49.3	2.67
	10	.569	.5183	.0960	9.66	4 29.8	.3070	22 45.5	2.81
	11	+0.579	−0.5175	+0.0950	9.68	4 28.3	1.3066	22 41.7	−2.95
	12	.588	.5167	.0939	9.69	4 26.8	.3061	22 37.9	3.08
	13	.598	.5159	.0928	9.71	4 25.4	.3057	22 34.0	3.21
	14	.608	.5152	.0916	9.72	4 23.9	.3052	22 30.2	3.34
	15	.617	.5144	.0904	9.74	4 22.5	.3048	22 26.4	3.48
	16	.626	.5137	.0892	9.75	4 21.1	.3043	22 22.5	3.61
	17	.636	.5130	.0879	9.76	4 19.6	.3038	22 18.6	3.74
	18	.645	.5123	.0866	9.78	4 18.2	.3032	22 14.8	3.87
	19	.654	.5116	.0853	9.79	4 16.8	.3027	22 10.9	3.99
	20	.663	.5109	.0839	9.81	4 15.5	.3021	22 7.0	4.12
	21	+0.672	−0.5102	+0.0825	9.82	4 14.1	1.3016	22 3.1	−4.24
	22	.681	.5096	.0810	9.83	4 12.7	.3010	21 59.2	4.36
	23	.690	.5089	.0796	9.85	4 11.4	.3004	21 55.3	4.49
	24	.698	.5083	.0781	9.86	4 10.1	.2998	21 51.4	4.61
	25	.707	.5076	.0766	9.87	4 8.7	.2992	21 47.4	4.72
	26	.715	.5070	.0751	9.88	4 7.4	.2986	21 43.5	4.84
	27	.724	.5064	.0736	9.90	4 6.2	.2980	21 39.6	4.96
	28	.732	.5058	.0720	9.91	4 4.9	.2974	21 35.6	5.07
	29	.740	.5052	.0704	9.92	4 3.6	.2967	21 31.6	5.18
	30	.749	.5046	.0688	9.93	4 2.4	.2961	21 27.6	5.29
	31	+0.757	−0.5041	+0.0672	9.94	4 1.1	1.2954	21 23.6	−5.40
Februar	1	.765	.5035	.0656	9.96	3 59.9	.2948	21 19.6	5.51
	2	.772	.5029	.0640	9.97	3 58.7	.2941	21 15.6	5.61
	3	.780	.5023	.0624	9.98	3 57.5	.2935	21 11.6	5.72
	4	.788	.5018	.0608	9.99	3 56.3	.2928	21 7.5	5.82
	5	.795	.5012	.0592	10.00	3 55.2	.2921	21 3.5	5.92
	6	.803	.5007	.0576	10.01	3 54.0	.2915	20 59.4	6.02
	7	.810	.5001	.0560	10.02	3 52.9	.2908	20 55.3	6.11
	8	.817	.4996	.0544	10.04	3 51.8	.2902	20 51.3	6.21
	9	.824	.4990	.0528	10.05	3 50.7	.2895	20 47.2	6.30

1847

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	+0.8831	−0.4985	+0.0512	10″06	3^h49^m7	1.2888	20^h43^m1	−6″39
11	.838	.4979	.0496	10.07	3 48.6	.2882	20 38.9	6.48
12	.845	.4973	.0480	10.08	3 47.6	.2875	20 34.8	6.57
13	.852	.4967	.0465	10.09	3 46.5	.2869	20 30.7	6.65
14	.858	.4962	.0450	10.10	3 45.5	.2863	20 26.5	6.73
15	.865	.4956	.0435	10.11	3 44.5	.2856	20 22.4	6.81
16	.871	.4950	.0420	10.13	3 43.6	.2850	20 18.2	6.89
17	.878	.4944	.0405	10.14	3 42.6	.2844	20 14.0	6.97
18	.884	.4939	.0391	10.15	3 41.7	.2838	20 9.8	7.04
19	.890	.4933	.0377	10.16	3 40.7	.2832	20 5.6	7.11
20	+0.896	−0.4927	+0.0363	10.17	3 39.8	1.2826	20 1.4	−7.18
21	.902	.4921	.0349	10.18	3 38.9	.2821	19 57.2	7.25
22	.908	.4915	.0335	10.20	3 38.0	.2815	19 53.0	7.31
23	.914	.4908	.0322	10.21	3 37.2	.2809	19 48.7	7.37
24	.920	.4902	.0309	10.22	3 36.3	.2804	19 44.5	7.43
25	.926	.4895	.0297	10.24	3 35.5	.2799	19 40.3	7.49
26	.931	.4889	.0285	10.25	3 34.7	.2794	19 36.0	7.55
27	.937	.4882	.0274	10.26	3 33.9	.2789	19 31.7	7.60
28	.943	.4875	.0263	10.28	3 33.1	.2785	19 27.4	7.65
März 1	.948	.4868	.0253	10.29	3 32.4	.2780	19 23.2	7.70
2	+0.953	−0.4861	+0.0243	10.30	3 31.6	1.2776	19 18.9	−7.74
3	.959	.4853	.0233	10.32	3 30.9	.2772	19 14.6	7.78
4	.964	.4846	.0224	10.33	3 30.2	.2768	19 10.3	7.82
5	.969	.4838	.0215	10.35	3 29.5	.2764	19 6.0	7.86
6	.974	.4830	.0207	10.37	3 28.8	.2761	19 1.7	7.90
7	.979	.4822	.0199	10.38	3 28.2	.2758	18 57.4	7.93
8	.985	.4814	.0192	10.40	3 27.5	.2755	18 53.1	7.96
9	.990	.4806	.0186	10.42	3 26.9	.2752	18 48.7	7.99
10	0.995	.4797	.0180	10.43	3 26.2	.2749	18 44.4	8.02
11	1.000	.4788	.0174	10.45	3 25.6	.2747	18 40.1	8.04
12	+1.005	−0.4779	+0.0169	10.47	3 25.0	1.2745	18 35.8	−8.07
13	.009	.4770	.0165	10.49	3 24.5	.2743	18 31.4	8.08
14	.014	.4761	.0161	10.51	3 23.9	.2741	18 27.1	8.10
15	.019	.4752	.0158	10.52	3 23.3	.2740	18 22.8	8.11
16	.024	.4742	.0155	10.54	3 22.8	.2739	18 18.4	8.13
17	.029	.4732	.0153	10.56	3 22.3	.2738	18 14.1	8.14
18	.034	.4722	.0151	10.59	3 21.8	.2737	18 9.8	8.14
19	.038	.4711	.0150	10.61	3 21.3	.2737	18 5.4	8.15
20	.043	.4700	.0150	10.63	3 20.8	.2736	18 1.1	8.15
21	.048	.4689	.0150	10.65	3 20.3	.2736	17 56.8	8.15
22	+1.053	−0.4677	+0.0151	10.67	3 19.8	1.2737	17 52.5	−8.14
23	.058	.4665	.0152	10.70	3 19.4	.2737	17 48.2	8.14
24	.063	.4653	.0154	10.72	3 18.9	.2738	17 43.8	8.13
25	.067	.4641	.0156	10.75	3 18.5	.2739	17 39.5	8.12
26	.072	.4629	.0159	10.77	3 18.1	.2740	17 35.2	8.11
27	.077	.4616	.0162	10.80	3 17.7	.2742	17 30.9	8.09
28	.082	.4603	.0166	10.82	3 17.3	.2743	17 26.6	8.08
29	.087	.4589	.0171	10.85	3 16.9	.2745	17 22.3	8.06
30	.092	.4575	.0176	10.88	3 16.5	.2748	17 18.1	8.03
31	.097	.4560	.0182	10.91	3 16.1	.2750	17 13.8	8.01

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	$+1^s.102$	−0.4546	+0.0188	10″.94	$3^h15^m.7$	1.2753	$17^h\ 9^m.5$	−7″.98
	2	.107	.4531	.0195	10.97	3 15.3	.2756	17 5.2	7.95
	3	.112	.4516	.0202	11.00	3 15.0	.2759	17 1.0	7.92
	4	.117	.4501	.0210	11.03	3 14.6	.2762	16 56.8	7.89
	5	.122	.4486	.0218	11.06	3 14.2	.2765	16 52.5	7.85
	6	.127	.4470	.0227	11.09	3 13.9	.2769	16 48.3	7.81
	7	.132	.4454	.0236	11.12	3 13.6	.2773	16 44.1	7.77
	8	.138	.4437	.0246	11.15	3 13.2	.2777	16 39.9	7.73
	9	.143	.4420	.0256	11.19	3 12.9	.2781	16 35.7	7.68
	10	.148	.4403	.0266	11.22	3 12.6	.2786	16 31.5	7.63
	11	+1.154	−0.4386	+0.0277	11.26	3 12.2	1.2790	16 27.3	−7.58
	12	.159	.4368	.0288	11.29	3 11.9	.2795	16 23.2	7.53
	13	.165	.4350	.0299	11.33	3 11.6	.2800	16 19.0	7.48
	14	.170	.4331	.0311	11.37	3 11.3	.2805	16 14.9	7.42
	15	.176	.4312	.0323	11.41	3 10.9	.2810	16 10.7	7.36
	16	.182	.4293	.0336	11.44	3 10.6	.2815	16 6.6	7.30
	17	.188	.4274	.0349	11.48	3 10.3	.2821	16 2.5	7.24
	18	.194	.4254	.0362	11.52	3 10.0	.2826	15 58.4	7.18
	19	.200	.4234	.0375	11.56	3 9.6	.2832	15 54.4	7.11
	20	.206	.4214	.0389	11.60	3 9.3	.2838	15 50.3	7.04
	21	+1.212	−0.4193	+0.0403	11.64	3 9.0	1.2843	15 46.3	−6.97
	22	.218	.4172	.0417	11.69	3 8.7	.2849	15 42.2	6.90
	23	.224	.4151	.0431	11.73	3 8.3	.2855	15 38.2	6.82
	24	.231	.4129	.0446	11.77	3 8.0	.2861	15 34.2	6.75
	25	.237	.4107	.0461	11.82	3 7.6	.2867	15 30.2	6.67
	26	.244	.4085	.0476	11.86	3 7.3	.2874	15 26.2	6.59
	27	.250	.4063	.0491	11.91	3 7.0	.2880	15 22.2	6.50
	28	.257	.4041	.0506	11.95	3 6.6	.2886	15 18.3	6.42
	29	.264	.4018	.0522	12.00	3 6.3	.2892	15 14.3	6.33
	30	.271	.3995	.0537	12.04	3 5.9	.2899	15 10.4	6.25
Mai	1	+1.278	−0.3972	+0.0552	12.09	3 5.6	1.2905	15 6.5	−6.16
	2	.285	.3949	.0567	12.13	3 5.2	.2911	15 2.6	6.07
	3	.292	.3925	.0583	12.18	3 4.9	.2918	14 58.7	5.97
	4	.299	.3901	.0598	12.23	3 4.5	.2924	14 54.8	5.88
	5	.307	.3876	.0614	12.28	3 4.2	.2930	14 50.9	5.78
	6	.314	.3851	.0629	12.33	3 3.8	.2937	14 47.1	5.68
	7	.321	.3827	.0645	12.38	3 3.4	.2943	14 43.3	5.58
	8	.329	.3803	.0660	12.43	3 3.0	.2949	14 39.4	5.48
	9	.337	.3778	.0675	12.48	3 2.6	.2955	14 35.6	5.38
	10	.344	.3752	.0690	12.53	3 2.2	.2962	14 31.8	5.28
	11	+1.352	−0.3727	+0.0705	12.58	3 1.8	1.2968	14 28.0	−5.17
	12	.360	.3701	.0720	12.63	3 1.4	.2974	14 24.3	5.07
	13	.368	.3676	.0735	12.68	3 1.0	.2980	14 20.5	4.96
	14	.376	.3650	.0749	12.73	3 0.6	.2986	14 16.7	4.85
	15	.384	.3624	.0764	12.78	3 0.2	.2991	14 13.0	4.74
	16	.392	.3598	.0778	12.84	2 59.8	.2997	14 9.3	4.63
	17	.401	.3572	.0792	12.89	2 59.3	.3003	14 5.5	4.51
	18	.409	.3546	.0806	12.94	2 58.9	.3008	14 1.8	4.40
	19	.418	.3520	.0820	12.99	2 58.4	.3014	13 58.2	4.28
	20	.426	.3494	.0833	13.05	2 58.0	.3019	13 54.5	4.17

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	$+1^s.435$	−0.3468	+0.0846	13″.10	$2^h57^m.5$	1.3024	$13^h50^m.8$	−4″.05
	22	.444	.3441	.0859	13.15	2 57.1	.3030	13 47.1	3.93
	23	.452	.3414	.0872	13.21	2 56.6	.3035	13 43.5	3.81
	24	.461	.3387	.0884	13.26	2 56.1	.3039	13 39.8	3.69
	25	.470	.3360	.0896	13.31	2 55.6	.3044	13 36.2	3.56
	26	.479	.3333	.0907	13.37	2 55.1	.3049	13 32.6	3.44
	27	.488	.3306	.0918	13.42	2 54.7	.3053	13 29.0	3.32
	28	.497	.3279	.0929	13.48	2 54.2	.3058	13 25.3	3.19
	29	.506	.3252	.0940	13.53	2 53.7	.3062	13 21.7	3.07
	30	.516	.3225	.0950	13.58	2 53.2	.3066	13 18.1	2.94
	31	+1.525	−0.3198	+0.0960	13.64	2 52.7	1.3070	13 14.6	−2.81
Juni	1	.534	.3171	.0969	13.69	2 52.1	.3073	13 11.0	2.68
	2	.543	.3144	.0978	13.75	2 51.6	.3077	13 7.4	2.55
	3	.553	.3117	.0987	13.80	2 51.0	.3080	13 3.8	2.42
	4	.562	.3090	.0995	13.85	2 50.5	.3084	13 0.3	2.29
	5	.572	.3064	.1003	13.91	2 50.0	.3087	12 56.7	2.16
	6	.581	.3037	.1010	13.96	2 49.4	.3090	12 53.2	2.03
	7	.591	.3010	.1017	14.02	2 48.8	.3092	12 49.6	1.90
	8	.601	.2983	.1023	14.07	2 48.3	.3095	12 46.1	1.77
	9	.610	.2957	.1029	14.12	2 47.7	.3097	12 42.6	1.64
	10	+1.620	−0.2930	+0.1035	14.18	2 47.1	1.3099	12 39.0	−1.50
	11	.630	.2904	.1040	14.23	2 46.6	.3101	12 35.5	1.37
	12	.640	.2877	.1045	14.28	2 46.0	.3103	12 32.0	1.23
	13	.649	.2851	.1049	14.34	2 45.4	.3105	12 28.5	1.10
	14	.659	.2824	.1053	14.39	2 44.8	.3106	12 25.0	0.96
	15	.669	.2798	.1056	14.44	2 44.2	.3107	12 21.5	0.83
	16	.679	.2772	.1059	14.49	2 43.6	.3109	12 18.0	0.69
	17	.689	.2746	.1061	14.55	2 43.0	.3109	12 14.5	0.56
	18	.699	.2720	.1063	14.60	2 42.4	.3110	12 10.9	0.42
	19	.709	.2694	.1064	14.65	2 41.8	.3111	12 7.4	0.29
	20	+1.718	−0.2668	+0.1065	14.70	2 41.2	1.3111	12 3.9	−0.15
	21	.728	.2643	.1065	14.75	2 40.6	.3111	12 0.4	−0.02
	22	.738	.2618	.1065	14.80	2 39.9	.3111	11 57.0	+0.12
	23	.748	.2593	.1064	14.85	2 39.3	.3111	11 53.5	0.25
	24	.758	.2568	.1063	14.90	2 38.7	.3110	11 50.0	0.39
	25	.768	.2543	.1061	14.95	2 38.1	.3110	11 46.5	0.52
	26	.778	.2518	.1059	15.00	2 37.4	.3109	11 43.0	0.66
	27	.788	.2494	.1056	15.05	2 36.8	.3108	11 39.5	0.79
	28	.797	.2470	.1053	15.10	2 36.2	.3107	11 36.0	0.93
	29	.807	.2446	.1050	15.15	2 35.5	.3105	11 32.4	1.06
	30	+1.817	−0.2421	+0.1046	15.20	2 34.9	1.3104	11 28.9	+ 1.20
Juli	1	.827	.2397	.1041	15.24	2 34.2	.3102	11 25.4	1.33
	2	.837	.2373	.1036	15.29	2 33.6	.3100	11 21.9	1.47
	3	.846	.2350	.1031	15.34	2 33.0	.3098	11 18.4	1.60
	4	.856	.2327	.1025	15.38	2 32.3	.3096	11 14.9	1.73
	5	.866	.2304	.1019	15.43	2 31.7	.3093	11 11.3	1.86
	6	.875	.2281	.1012	15.48	2 31.0	.3090	11 7.8	2.00
	7	.885	.2259	.1005	15.52	2 30.4	.3088	11 4.3	2.13
	8	.894	.2237	.0997	15.57	2 29.8	.3085	11 0.7	2.26
	9	.904	.2215	.0989	15.61	2 29.1	.3081	10 57.2	2.39

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	10	$+1^s.913$	−0.2193	+0.0981	15″.66	$2^h28^m.5$	1.3078	$10^h53^m.6$	+2″.52
	11	.922	.2171	.0972	15.70	2 27.8	.3075	10 50.1	2.65
	12	.932	.2150	.0963	15.74	2 27.2	.3071	10 46.5	2.77
	13	.941	.2129	.0953	15.78	2 26.6	.3067	10 43.0	2.90
	14	.950	.2108	.0943	15.83	2 25.9	.3063	10 39.4	3.03
	15	.959	.2087	.0933	15.87	2 25.3	.3059	10 35.8	3.15
	16	.968	.2066	.0922	15.91	2 24.6	.3055	10 32.2	3.28
	17	.977	.2046	.0911	15.95	2 24.0	.3050	10 28.6	3.40
	18	.986	.2026	.0900	15.99	2 23.4	.3046	10 25.0	3.52
	19	.995	.2006	.0888	16.03	2 22.8	.3041	10 21.4	3.64
	20	+2.004	−0.1986	+0.0876	16.07	2 22.1	1.3036	10 17.8	+3.77
	21	.013	.1966	.0864	16.11	2 21.5	.3031	10 14.1	3.89
	22	.022	.1947	.0851	16.15	2 20.9	.3026	10 10.5	4.01
	23	.030	.1928	.0838	16.18	2 20.3	.3021	10 6.9	4.12
	24	.039	.1909	.0825	16.22	2 19.6	.3016	10 3.2	4.24
	25	.047	.1891	.0811	16.26	2 19.0	.3010	9 59.5	4.36
	26	.056	.1873	.0798	16.30	2 18.4	.3005	9 55.9	4.47
	27	.064	.1855	.0784	16.33	2 17.8	.2999	9 52.2	4.58
	28	.072	.1837	.0770	16.37	2 17.2	.2994	9 48.5	4.69
	29	.080	.1819	.0756	16.40	2 16.6	.2988	9 44.8	4.80
	30	+2.088	−0.1802	+0.0742	16.44	2 16.0	1.2982	9 41.0	+4.91
	31	.096	.1785	.0727	16.47	2 15.5	.2976	9 37.3	5.02
August	1	.104	.1768	.0712	16.51	2 14.9	.2970	9 33.6	5.13
	2	.112	.1752	.0697	16.54	2 14.3	.2964	9 29.8	5.23
	3	.120	.1735	.0682	16.57	2 13.7	.2958	9 26.0	5.34
	4	.127	.1719	.0667	16.61	2 13.2	.2952	9 22.3	5.44
	5	.135	.1703	.0651	16.64	2 12.6	.2946	9 18.5	5.54
	6	.142	.1687	.0636	16.67	2 12.1	.2940	9 14.7	5.64
	7	.150	.1671	.0621	16.70	2 11.5	.2934	9 10.9	5.74
	8	.157	.1655	.0606	16.73	2 11.0	.2927	9 7.0	5.83
	9	+2.164	−0.1640	+0.0590	16.76	2 10.4	1.2921	9 3.2	+5.93
	10	.171	.1625	.0575	16.79	2 9.9	.2915	8 59.3	6.02
	11	.178	.1610	.0560	16.82	2 9.4	.2909	8 55.5	6.11
	12	.185	.1595	.0545	16.85	2 8.8	.2902	8 51.6	6.20
	13	.192	.1580	.0530	16.88	2 8.3	.2896	8 47.7	6.29
	14	.199	.1566	.0515	16.91	2 7.8	.2890	8 43.8	6.37
	15	.206	.1551	.0500	16.94	2 7.3	.2883	8 39.9	6.46
	16	.212	.1537	.0485	16.97	2 6.8	.2877	8 36.0	6.54
	17	.219	.1523	.0470	17.00	2 6.4	.2871	8 32.1	6.62
	18	.225	.1509	.0456	17.03	2 5.9	.2865	8 28.1	6.70
	19	+2.232	−0.1495	+0.0441	17.05	2 5.4	1.2859	8 24.1	+6.78
	20	.238	.1482	.0427	17.08	2 4.9	.2853	8 20.2	6.85
	21	.244	.1468	.0412	17.11	2 4.5	.2847	8 16.2	6.93
	22	.250	.1455	.0398	17.13	2 4.0	.2841	8 12.2	7.00
	23	.256	.1441	.0384	17.16	2 3.6	.2836	8 8.1	7.07
	24	.262	.1428	.0371	17.19	2 3.2	.2830	8 4.1	7.13
	25	.268	.1415	.0358	17.21	2 2.8	.2824	8 0.1	7.20
	26	.274	.1402	.0345	17.24	2 2.4	.2819	7 56.0	7.26
	27	.280	.1390	.0332	17.27	2 2.0	.2814	7 52.0	7.32
	28	.286	.1377	.0320	17.29	2 1.6	.2808	7 47.9	7.38

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	29	+2.291	−0.1364	+0.0308	17.32	2h 1m.2	1.2803	7h43m.8	+7.44
	30	.297	.1351	.0296	17.34	2 0.8	.2798	7 39.7	7.50
	31	.302	.1339	.0285	17.37	2 0.4	.2794	7 35.6	7.55
Septbr.	1	.308	.1326	.0274	17.39	2 0.1	.2789	7 31.5	7.60
	2	.313	.1313	.0263	17.42	1 59.7	.2785	7 27.4	7.65
	3	.318	.1300	.0253	17.44	1 59.4	.2780	7 23.2	7.69
	4	.324	.1288	.0243	17.47	1 59.1	.2776	7 19.1	7.74
	5	.329	.1275	.0234	17.49	1 58.7	.2772	7 14.9	7.78
	6	.334	.1263	.0225	17.52	1 58.4	.2768	7 10.8	7.82
	7	.339	.1250	.0217	17.55	1 58.1	.2765	7 6.6	7.86
	8	+2.344	−0.1238	+0.0209	17.57	1 57.8	1.2761	7 2.4	+7.89
	9	.349	.1225	.0201	17.60	1 57.5	.2758	6 58.2	7.93
	10	.354	.1213	.0194	17.62	1 57.2	.2755	6 54.0	7.96
	11	.359	.1200	.0187	17.65	1 57.0	.2752	6 49.8	7.99
	12	.364	.1187	.0181	17.67	1 56.7	.2750	6 45.6	8.01
	13	.369	.1174	.0176	17.70	1 56.5	.2747	6 41.3	8.04
	14	.374	.1161	.0171	17.72	1 56.2	.2745	6 37.1	8.06
	15	.379	.1148	.0166	17.75	1 56.0	.2743	6 32.9	8.08
	16	.384	.1135	.0162	17.78	1 55.8	.2742	6 28.6	8.10
	17	.388	.1122	.0159	17.80	1 55.5	.2740	6 24.4	8.11
	18	+2.393	−0.1109	+0.0156	17.83	1 55.3	1.2739	6 20.1	+8.12
	19	.398	.1095	.0154	17.86	1 55.1	.2738	6 15.9	8.13
	20	.403	.1082	.0152	17.88	1 54.9	.2737	6 11.6	8.14
	21	.408	.1068	.0151	17.91	1 54.7	.2737	6 7.3	8.15
	22	.412	.1054	.0150	17.94	1 54.5	.2736	6 3.1	8.15
	23	.417	.1040	.0150	17.97	1 54.4	.2736	5 58.8	8.15
	24	.422	.1026	.0150	18.00	1 54.2	.2737	5 54.5	8.15
	25	.426	.1011	.0151	18.02	1 54.0	.2737	5 50.2	8.14
	26	.431	.0997	.0153	18.05	1 53.9	.2738	5 46.0	8.14
	27	.436	.0982	.0155	18.08	1 53.7	.2739	5 41.7	8.13
	28	+2.441	−0.0967	+0.0158	18.11	1 53.6	1.2740	5 37.4	+8.12
	29	.446	.0952	.0161	18.14	1 53.5	.2741	5 33.1	8.10
	30	.450	.0937	.0165	18.17	1 53.3	.2743	5 28.8	8.09
Oktbr.	1	.455	.0922	.0169	18.20	1 53.2	.2745	5 24.6	8.07
	2	.460	.0906	.0174	18.24	1 53.1	.2747	5 20.3	8.05
	3	.465	.0890	.0180	18.27	1 53.0	.2749	5 16.0	8.02
	4	.470	.0874	.0186	18.30	1 52.9	.2751	5 11.7	8.00
	5	.475	.0857	.0193	18.33	1 52.8	.2754	5 7.5	7.97
	6	.480	.0840	.0200	18.37	1 52.7	.2757	5 3.2	7.94
	7	.485	.0823	.0207	18.40	1 52.7	.2760	4 58.9	7.90
	8	+2.490	−0.0806	+0.0215	18.44	1 52.6	1.2764	4 54.7	+7.87
	9	.495	.0789	.0223	18.47	1 52.5	.2767	4 50.4	7.83
	10	.500	.0771	.0232	18.51	1 52.4	.2771	4 46.2	7.79
	11	.506	.0753	.0241	18.54	1 52.4	.2775	4 41.9	7.75
	12	.511	.0735	.0251	18.58	1 52.3	.2779	4 37.7	7.70
	13	.516	.0716	.0261	18.62	1 52.3	.2784	4 33.4	7.66
	14	.522	.0697	.0272	18.65	1 52.2	.2788	4 29.2	7.61
	15	.527	.0678	.0283	18.69	1 52.2	.2793	4 25.0	7.56
	16	.533	.0659	.0295	18.73	1 52.1	.2798	4 20.8	7.50
	17	.538	.0639	.0307	18.77	1 52.1	.2803	4 16.6	7.45

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	18	$+2^s.544$	−0.0619	+0.0319	18″.81	$1^h52^m.0$	1.2808	$4^h12^m.4$	+7″.39
	19	.550	.0598	.0332	18.85	1 52.0	.2814	4 8.2	7.33
	20	.556	.0577	.0345	18.89	1 52.0	.2819	4 4.0	7.26
	21	.562	.0556	.0358	18.94	1 51.9	.2825	3 59.8	7.20
	22	.568	.0535	.0372	18.98	1 51.9	.2830	3 55.7	7.13
	23	.574	.0513	.0386	19.02	1 51.9	.2836	3 51.5	7.06
	24	.580	.0491	.0400	19.07	1 51.8	.2842	3 47.4	6.99
	25	.586	.0468	.0414	19.11	1 51.8	.2848	3 43.2	6.91
	26	.593	.0445	.0429	19.16	1 51.8	.2854	3 39.1	6.84
	27	.599	.0422	.0444	19.20	1 51.7	.2860	3 35.0	6.76
	28	+2.605	−0.0399	+0.0459	19.25	1 51.7	1.2867	3 30.9	+6.68
	29	.612	.0375	.0475	19.30	1 51.7	.2873	3 26.7	6.60
	30	.619	.0351	.0490	19.35	1 51.6	.2879	3 22.6	6.51
	31	.626	.0327	.0506	19.40	1 51.6	.2886	3 18.6	6.43
Novbr.	1	.632	.0303	.0521	19.44	1 51.5	.2892	3 14.5	6.34
	2	.639	.0278	.0537	19.49	1 51.5	.2899	3 10.4	6.25
	3	.646	.0253	.0553	19.55	1 51.5	.2905	3 6.4	6.16
	4	.654	.0227	.0569	19.60	1 51.4	.2912	3 2.3	6.06
	5	.661	.0201	.0585	19.65	1 51.4	.2919	2 58.3	5.97
	6	.668	.0175	.0601	19.70	1 51.3	.2925	2 54.3	5.87
	7	+2.676	−0.0149	+0.0617	19.75	1 51.3	1.2932	2 50.3	+5.77
	8	.683	.0123	.0633	19.81	1 51.2	.2938	2 46.3	5.66
	9	.691	.0096	.0649	19.86	1 51.2	.2945	2 42.3	5.56
	10	.699	.0069	.0665	19.91	1 51.1	.2951	2 38.3	5.45
	11	.707	.0042	.0681	19.97	1 51.0	.2958	2 34.3	5.35
	12	.715	−0.0015	.0696	20.02	1 51.0	.2964	2 30.4	5.24
	13	.723	+0.0013	.0712	20.08	1 50.9	.2970	2 26.4	5.13
	14	.731	.0041	.0728	20.13	1 50.8	.2977	2 22.5	5.02
	15	.739	.0069	.0743	20.19	1 50.7	.2983	2 18.6	4.90
	16	.747	.0098	.0758	20.25	1 50.6	.2989	2 14.6	4.79
	17	+2.756	+0.0127	+0.0773	20.31	1 50.5	1.2995	2 10.7	+4.67
	18	.764	.0157	.0787	20.37	1 50.4	.3001	2 6.8	4.55
	19	.773	.0186	.0802	20.43	1 50.3	.3007	2 2.9	4.43
	20	.782	.0216	.0816	20.48	1 50.2	.3012	1 59.0	4.31
	21	.790	.0246	.0830	20.54	1 50.1	.3018	1 55.2	4.19
	22	.799	.0276	.0844	20.60	1 50.0	.3024	1 51.3	4.06
	23	.808	.0306	.0858	20.66	1 49.9	.3029	1 47.5	3.94
	24	.817	.0336	.0871	20.72	1 49.7	.3034	1 43.6	3.81
	25	.827	.0366	.0884	20.79	1 49.6	.3040	1 39.8	3.68
	26	.836	.0397	.0897	20.85	1 49.5	.3045	1 35.9	3.55
	27	+2.845	+0.0427	+0.0909	20.91	1 49.3	1.3049	1 32.1	+3.42
	28	.854	.0458	.0921	20.97	1 49.2	.3054	1 28.3	3.29
	29	.864	.0488	.0932	21.03	1 49.0	.3059	1 24.5	3.16
	30	.873	.0519	.0943	21.09	1 48.8	.3063	1 20.6	3.03
Dezbr.	1	.883	.0550	.0954	21.16	1 48.7	.3067	1 16.8	2.89
	2	.893	.0581	.0964	21.22	1 48.5	.3071	1 13.0	2.76
	3	.902	.0612	.0974	21.28	1 48.3	.3075	1 9.2	2.62
	4	.912	.0643	.0984	21.34	1 48.1	.3079	1 5.5	2.48
	5	.922	.0674	.0993	21.40	1 47.9	.3082	1 1.7	2.35
	6	.932	.0706	.1001	21.47	1 47.7	.3086	0 57.9	2.21

1847

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	7	$+2^s.942$	+0.0737	+0.1009	21".53	$1^h47^m.5$	1.3089	$0^h54^m.1$	+2".07
	8	.952	.0768	.1016	21.59	1 47.3	.3092	0 50.4	1.93
	9	.962	.0799	.1023	21.65	1 47.1	.3095	0 46.6	1.79
	10	.972	.0831	.1029	21.72	1 46.8	.3097	0 42.9	1.65
	11	.982	.0863	.1035	21.78	1 46.6	.3099	0 39.1	1.50
	12	2.992	.0894	.1040	21.84	1 46.4	.3101	0 35.4	1.36
	13	3.002	.0925	.1045	21.91	1 46.1	.3103	0 31.6	1.22
	14	.013	.0956	.1049	21.97	1 45.9	.3105	0 27.9	1.08
	15	.023	.0987	.1053	22.03	1 45.6	.3106	0 24.1	0.93
	16	.033	.1018	.1056	22.09	1 45.3	.3108	0 20.4	0.79
	17	+3.043	+0.1049	+0.1059	22.16	1 45.1	1.3109	0 16.7	+0.64
	18	.054	.1080	.1061	22.22	1 44.8	.3110	0 12.9	0.50
	19	.064	.1111	.1063	22.28	1 44.5	.3110	0 9.2	0.36
	20	.074	.1142	.1064	22.34	1 44.2	.3111	0 5.4	0.21
	21	.085	.1173	.1065	22.40	1 43.9	.3111	0 1.7	+0.07
	22	.095	.1203	.1065	22.46	1 43.6	.3111	23 57.9	−0.08
	23	.105	.1233	.1064	22.53	1 43.3	.3111	23 54.2	0.22
	24	.116	.1263	.1063	22.59	1 43.0	.3110	23 50.5	0.37
	25	.126	.1293	.1061	22.65	1 42.7	.3110	23 46.7	0.51
	26	.136	.1323	.1059	22.70	1 42.4	.3109	23 43.0	0.66
	27	+3.147	+0.1353	+0.1056	22.76	1 42.1	1.3108	23 39.2	−0.80
	28	.157	.1382	.1053	22.82	1 41.8	.3107	23 35.5	0.95
	29	.167	.1411	.1049	22.88	1 41.5	.3105	23 31.7	1.09
	30	.178	.1440	.1045	22.94	1 41.1	.3103	23 28.0	1.23
	31	.188	.1469	.1041	23.00	1 40.8	.3101	23 24.2	1.38

1848

Januar	1	$+0^s.127$	−0.5102	+0.1035	9".82	$5^h40^m.7$	1.3099	$23^h20^m.5$	−1".52
	2	.137	.5102	.1029	9.82	5 39.2	.3097	23 16.7	1.66
	3	.147	.5103	.1022	9.82	5 37.6	.3094	23 12.9	1.80
	4	.157	.5104	.1015	9.82	5 36.1	.3092	23 9.2	1.94
	5	.167	.5105	.1008	9.81	5 34.5	.3089	23 5.4	2.08
	6	.177	.5106	.1000	9.81	5 33.0	.3085	23 1.6	2.22
	7	.187	.5107	.0991	9.81	5 31.5	.3082	22 57.8	2.36
	8	.196	.5108	.0982	9.81	5 30.0	.3078	22 54.0	2.50
	9	.206	.5110	.0973	9.80	5 28.5	.3075	22 50.2	2.64
	10	.216	.5111	.0963	9.80	5 27.0	.3071	22 46.4	2.78
	11	+0.226	.5112	+0.0952	9.80	5 25.4	1.3067	22 42.6	−2.91
	12	.235	.5113	.0941	9.80	5 24.0	.3062	22 38.8	3.05
	13	.245	.5115	.0930	9.79	5 22.5	.3058	22 35.0	3.18
	14	.254	.5117	.0919	9.79	5 21.0	.3053	22 31.1	3.31
	15	.264	.5119	.0907	9.79	5 19.5	.3049	22 27.3	3.44
	16	.273	.5121	.0895	9.78	5 18.1	.3044	22 23.4	3.58
	17	.282	.5123	.0882	9.78	5 16.6	.3039	22 19.6	3.71
	18	.291	.5125	.0869	9.78	5 15.1	.3034	22 15.7	3.83
	19	.301	.5127	.0856	9.77	5 13.7	.3028	22 11.8	3.96
	20	.310	.5129	.0842	9.77	5 12.3	.3023	22 8.0	4.09

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	21	$+0^s.318$	−0.5131	+0.0828	9.″76	$5^h 10^m.9$	1.3017	$22^h 4^m.1$	−4.″21
	22	.327	.5133	.0814	9.76	5 9.5	.3011	22 0.2	4.33
	23	.336	.5135	.0799	9.76	5 8.1	.3005	21 56.2	4.46
	24	.345	.5137	.0784	9.75	5 6.7	.3000	21 52.3	4.58
	25	.353	.5139	.0769	9.75	5 5.3	.2994	21 48.4	4.70
	26	.362	.5141	.0754	9.74	5 4.0	.2987	21 44.5	4.81
	27	.370	.5144	.0739	9.74	5 2.6	.2981	21 40.5	4.93
	28	.378	.5147	.0724	9.73	5 1.3	.2975	21 36.6	5.04
	29	.386	.5149	.0708	9.73	4 59.9	.2969	21 32.6	5.16
	30	.394	.5151	.0692	9.72	4 58.6	.2962	21 28.6	5.27
	31	+0.402	−0.5153	+0.0676	9.72	4 57.3	1.2956	21 24.6	−5.38
Februar	1	.410	.5155	.0660	9.71	4 56.1	.2949	21 20.6	5.48
	2	.418	.5157	.0644	9.71	4 54.8	.2943	21 16.6	5.59
	3	.426	.5159	.0628	9.71	4 53.5	.2936	21 12.6	5.69
	4	.433	.5161	.0612	9.70	4 52.3	.2930	21 8.5	5.80
	5	.441	.5163	.0596	9.70	4 51.0	.2923	21 4.5	5.90
	6	.448	.5165	.0580	9.69	4 49.8	.2916	21 0.4	5.99
	7	.455	.5167	.0563	9.69	4 48.6	.2910	20 56.3	6.09
	8	.462	.5169	.0547	9.69	4 47.4	.2903	20 52.2	6.19
	9	.469	.5171	.0531	9.68	4 46.3	.2896	20 48.2	6.28
	10	+0.476	−0.5172	+0.0515	9.68	4 45.1	1.2890	20 44.1	−6.37
	11	.483	.5174	.0499	9.68	4 44.0	.2883	20 39.9	6.46
	12	.480	.5175	.0484	9.68	4 42.8	.2877	20 35.8	6.55
	13	.497	.5176	.0468	9.67	4 41.7	.2871	20 31.7	6.63
	14	.503	.5177	.0453	9.67	4 40.6	.2864	20 27.5	6.71
	15	.510	.5178	.0438	9.67	4 39.5	.2858	20 23.4	6.79
	16	.516	.5179	.0423	9.67	4 38.5	.2852	20 19.2	6.87
	17	.522	.5180	.0408	9.66	4 37.4	.2845	20 15.0	6.95
	18	.529	.5181	.0394	9.66	4 36.3	.2839	20 10.9	7.02
	19	.535	.5182	.0380	9.66	4 35.3	.2834	20 6.7	7.09
	20	+0.541	−0.5182	+0.0366	9.66	4 34.3	1.2828	20 2.5	−7.16
	21	.547	.5182	.0352	9.66	4 33.3	.2822	19 58.2	7.23
	22	.553	.5182	.0339	9.66	4 32.3	.2816	19 54.0	7.29
	23	.559	.5182	.0326	9.66	4 31.3	.2811	19 49.8	7.36
	24	.564	.5181	.0313	9.66	4 30.4	.2805	19 45.5	7.42
	25	.570	.5181	.0300	9.66	4 29.4	.2800	19 41.3	7.47
	26	.576	.5180	.0288	9.66	4 28.5	.2795	19 37.0	7.53
	27	.581	.5179	.0276	9.67	4 27.6	.2790	19 32.8	7.58
	28	.587	.5178	.0265	9.67	4 26.7	.2786	19 28.5	7.63
	29	.592	.5177	.0255	9.67	4 25.8	.2781	19 24.2	7.68
März	1	+0.597	−0.5176	+0.0245	9.67	4 25.0	1.2777	19 19.9	−7.73
	2	.603	.5174	.0236	9.68	4 24.1	.2773	19 15.6	7.77
	3	.608	.5171	.0227	9.68	4 23.3	.2769	19 11.3	7.82
	4	.613	.5169	.0218	9.69	4 22.4	.2765	19 7.0	7.85
	5	.618	.5166	.0210	9.69	4 21.6	.2762	19 2.7	7.89
	6	.623	.5163	.0202	9.70	4 20.8	.2758	18 58.4	7.92
	7	.628	.5160	.0194	9.70	4 20.0	.2755	18 54.1	7.96
	8	.633	.5157	.0187	9.71	4 19.2	.2752	18 49.8	7.99
	9	.638	.5153	.0181	9.72	4 18.5	.2750	18 45.5	8.01
	10	.643	.5149	.0175	9.73	4 17.7	.2747	18 41.1	8.04

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	11	+0.8648	−0.5145	+0.0170	9.″73	$4^h17^m.0$	1.2745	$18^h36^m.8$	−8.″06
	12	.653	.5141	.0166	9.74	4 16.3	.2743	18 32.5	8.08
	13	.658	.5136	.0162	9.75	4 15.6	.2741	18 28.1	8.10
	14	.662	.5131	.0159	9.76	4 14.9	.2740	18 23.8	8.11
	15	.667	.5125	.0156	9.77	4 14.2	.2739	18 19.5	8.12
	16	.672	.5119	.0154	9.79	4 13.5	.2738	18 15.1	8.13
	17	.677	.5113	.0152	9.80	4 12.8	.2737	18 10.8	8.14
	18	.681	.5107	.0151	9.81	4 12.2	.2737	18 6.5	8.15
	19	.686	.5100	.0150	9.82	4 11.5	.2736	18 2.2	8.15
	20	.691	.5093	.0150	9.84	4 10.9	.2736	17 57.8	8.15
	21	+0.696	−0.5086	+0.0151	9.85	4 10.3	1.2737	17 53.5	−8.15
	22	.700	.5078	.0152	9.87	4 9.6	.2737	17 49.2	8.14
	23	.705	.5070	.0154	9.88	4 9.0	.2738	17 44.9	8.13
	24	.710	.5062	.0156	9.90	4 8.4	.2739	17 40.6	8.12
	25	.715	.5053	.0159	9.92	4 7.8	.2740	17 36.3	8.11
	26	.719	.5044	.0162	9.94	4 7.2	.2741	17 32.0	8.10
	27	.724	.5035	.0166	9.96	4 6.6	.2743	17 27.7	8.08
	28	.729	.5025	.0170	9.98	4 6.0	.2745	17 23.4	8.06
	29	.734	.5015	.0175	10.00	4 5.4	.2747	17 19.1	8.04
	30	.739	.5005	.0181	10.02	4 4.9	.2750	17 14.8	8.02
	31	+0.744	−0.4994	+0.0187	10.04	4 4.3	1.2752	17 10.5	−7.99
April	1	.749	.4983	.0194	10.06	4 3.7	.2755	17 6.3	7.96
	2	.754	.4971	.0201	10.08	4 3.2	.2758	17 2.0	7.93
	3	.759	.4959	.0208	10.11	4 2.6	.2761	16 57.8	7.90
	4	.764	.4947	.0216	10.13	4 2.1	.2765	16 53.5	7.86
	5	.769	.4935	.0225	10.16	4 1.5	.2768	16 49.3	7.82
	6	.774	.4922	.0234	10.18	4 1.0	.2772	16 45.1	7.78
	7	.779	.4909	.0244	10.21	4 0.4	.2776	16 40.9	7.74
	8	.785	.4895	.0254	10.24	3 59.9	.2780	16 36.7	7.69
	9	.790	.4881	.0264	10.26	3 59.4	.2785	16 32.5	7.65
	10	+0.795	−0.4867	+0.0275	10.29	3 58.8	1.2789	16 28.3	−7.60
	11	.801	.4853	.0286	10.32	3 58.3	.2794	16 24.2	7.54
	12	.806	.4838	.0297	10.35	3 57.7	.2799	16 20.0	7.49
	13	.812	.4823	.0309	10.38	3 57.2	.2804	16 15.9	7.43
	14	.817	.4808	.0321	10.41	3 56.7	.2809	16 11.7	7.38
	15	.823	.4792	.0333	10.44	3 56.1	.2814	16 7.6	7.32
	16	.829	.4776	.0346	10.47	3 55.6	.2819	16 3.5	7.26
	17	.835	.4760	.0359	10.51	3 55.1	.2825	15 59.4	7.19
	18	.841	.4743	.0372	10.54	3 54.5	.2830	15 55.4	7.13
	19	.847	.4726	.0386	10.58	3 54.0	.2836	15 51.3	7.06
	20	+0.853	−0.4708	+0.0400	10.61	3 53.4	1.2842	15 47.2	−6.99
	21	.859	.4691	.0414	10.65	3 52.8	.2848	15 43.2	6.92
	22	.865	.4673	.0428	10.68	3 52.3	.2854	15 39.2	6.84
	23	.871	.4655	.0442	10.72	3 51.7	.2860	15 35.2	6.76
	24	.878	.4637	.0457	10.75	3 51.1	.2866	15 31.2	6.69
	25	.884	.4619	.0472	10.79	3 50.6	.2872	15 27.2	6.61
	26	.891	.4600	.0487	10.83	3 50.0	.2878	15 23.2	6.52
	27	.897	.4581	.0503	10.86	3 49.4	.2885	15 19.2	6.44
	28	.904	.4561	.0518	10.90	3 48.9	.2891	15 15.3	6.35
	29	.911	.4542	.0534	10.94	3 48.3	.2897	15 11.3	6.27

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	30	+0.s918	−0.4522	+0.0549	10.″98	$3^h47^m.7$	1.2904	$15^h\ 7^m.4$	−6.″18
Mai	1	.925	.4503	.0565	11.02	3 47.1	.2910	15 3.5	6.08
	2	.932	.4483	.0580	11.06	3 46.5	.2916	14 59.6	5.99
	3	.939	.4463	.0595	11.10	3 45.9	.2923	14 55.7	5.90
	4	.946	.4442	.0610	11.15	3 45.3	.2929	14 51.9	5.81
	5	.954	.4421	.0626	11.19	3 44.7	.2935	14 48.0	5.71
	6	.961	.4400	.0641	11.23	3 44.1	.2941	14 44.2	5.61
	7	.968	.4378	.0656	11.27	3 43.5	.2948	14 40.4	5.51
	8	.976	.4356	.0671	11.32	3 42.9	.2954	14 36.5	5.41
	9	.984	.4335	.0686	11.36	3 42.2	.2960	14 32.7	5.30
	10	+0.992	−0.4313	+0.0701	11.40	3 41.6	1.2966	14 28.9	−5.20
	11	0.999	.4291	.0716	11.45	3 41.0	.2972	14 25.2	5.09
	12	1.007	.4269	.0731	11.49	3 40.3	.2978	14 21.4	4.98
	13	.015	.4247	.0746	11.53	3 39.7	.2984	14 17.6	4.87
	14	.023	.4225	.0760	11.58	3 39.0	.2990	14 13.9	4.76
	15	.031	.4203	.0775	11.62	3 38.3	.2996	14 10.2	4.65
	16	.040	.4180	.0789	11.67	3 37.7	.3001	14 6.4	4.54
	17	.048	.4158	.0803	11.71	3 37.0	.3007	14 2.7	4.43
	18	.056	.4135	.0817	11.76	3 36.3	.3012	13 59.0	4.31
	19	.065	.4112	.0830	11.81	3 35.6	.3018	13 55.4	4.19
	20	+1.073	−0.4089	+0.0843	11.85	3 34.9	1.3023	13 51.7	−4.08
	21	.082	.4067	.0856	11.90	3 34.2	.3028	13 48.0	3.96
	22	.091	.4044	.0869	11.94	3 33.5	.3033	13 44.3	3.84
	23	.100	.4021	.0881	11.99	3 32.8	.3038	13 40.7	3.71
	24	.109	.3998	.0893	12.04	3 32.1	.3043	13 37.1	3.59
	25	.117	.3974	.0905	12.08	3 31.4	.3048	13 33.4	3.47
	26	.126	.3951	.0916	12.13	3 30.6	.3052	13 29.8	3.35
	27	.135	.3928	.0927	12.17	3 29.9	.3057	13 26.2	3.22
	28	.145	.3905	.0937	12.22	3 29.2	.3061	13 22.6	3.10
	29	.154	.3882	.0947	12.27	3 28.4	.3065	13 19.0	2.97
	30	+1.163	−0.3859	+0.0957	12.31	3 27.7	1.3069	13 15.4	−2.84
	31	.172	.3836	.0967	12.36	3 26.9	.3072	13 11.8	2.71
Juni	1	.181	.3813	.0976	12.41	3 26.2	.3076	13 8.3	2.59
	2	.191	.3790	.0985	12.45	3 25.4	.3080	13 4.7	2.46
	3	.200	.3767	.0993	12.50	3 24.7	.3083	13 1.1	2.33
	4	.210	.3744	.1001	12.54	3 23.9	.3086	12 57.6	2.20
	5	.219	.3721	.1008	12.59	3 23.1	.3089	12 54.0	2.06
	6	.229	.3698	.1015	12.64	3 22.3	.3092	12 50.5	1.93
	7	.238	.3675	.1022	12.68	3 21.5	.3094	12 47.0	1.80
	8	.248	.3652	.1028	12.73	3 20.7	.3097	12 43.4	1.67
	9	+1.258	−0.3630	+0.1034	12.77	3 20.0	1.3099	12 39.9	−1.53
	10	.267	.3607	.1039	12.82	3 19.2	.3101	12 36.4	1.40
	11	.277	.3585	.1044	12.86	3 18.4	.3103	12 32.9	1.27
	12	.287	.3562	.1048	12.91	3 17.6	.3105	12 29.3	1.13
	13	.297	.3540	.1052	12.95	3 16.8	.3106	12 25.8	1.00
	14	.306	.3518	.1055	13.00	3 15.9	.3107	12 22.3	0.86
	15	.316	.3496	.1058	13.04	3 15.1	.3108	12 18.8	0.73
	16	.326	.3475	.1060	13.08	3 14.3	.3109	12 15.3	0.59
	17	.336	.3453	.1062	13.13	3 13.5	.3110	12 11.8	0.46
	18	.346	.3431	.1063	13.17	3 12.6	.3111	12 8.3	0.32

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	19	+1.8356	−0.3409	+0.1064	13.″22	$3^h 11.^m8$	1.3111	$12^h 4.^m8$	−0.″19
	20	.366	.3387	.1065	13.26	3 11.0	.3111	12 1.3	−0.05
	21	.375	.3366	.1065	13.30	3 10.2	.3111	11 57.8	+0.08
	22	.385	.3345	.1064	13.35	3 9.3	.3111	11 54.3	0.22
	23	.395	.3324	.1063	13.39	3 8.5	.3111	11 50.8	0.36
	24	.405	.3303	.1062	13.43	3 7.7	.3110	11 47.3	0.49
	25	.415	.3282	.1060	13.47	3 6.8	.3109	11 43.8	0.63
	26	.425	.3261	.1057	13.51	3 6.0	.3108	11 40.3	0.76
	27	.434	.3241	.1054	13.55	3 5.2	.3107	11 36.8	0.90
	28	.444	.3221	.1051	13.59	3 4.3	.3106	11 33.3	1.03
	29	+1.454	−0.3201	+0.1047	13.63	3 3.5	1.3104	11 29.8	+1.17
	30	.464	.3181	.1043	13.67	3 2.7	.3102	11 26.3	1.30
Juli	1	.473	.3161	.1038	13.71	3 1.8	.3100	11 22.8	1.43
	2	.483	.3141	.1033	13.75	3 1.0	.3098	11 19.2	1.57
	3	.493	.3122	.1027	13.79	3 0.2	.3096	11 15.7	1.70
	4	.502	.3103	.1021	13.83	2 59.3	.3094	11 12.2	1.83
	5	.512	.3084	.1014	13.87	2 58.5	.3091	11 8.7	1.96
	6	.521	.3065	.1007	13.91	2 57.6	.3088	11 5.1	2.10
	7	.531	.3047	.0999	13.94	2 56.8	.3085	11 1.6	2.23
	8	.540	.3029	.0991	13.98	2 56.0	.3082	10 58.0	2.36
	9	+1.550	−0.3011	+0.0983	14.02	2 55.1	1.3079	10 54.5	+2.49
	10	.559	.2993	.0974	14.05	2 54.3	.3075	10 50.9	2.61
	11	.568	.2975	.0965	14.09	2 53.5	.3072	10 47.4	2.74
	12	.578	.2957	.0956	14.12	2 52.7	.3068	10 43.8	2.87
	13	.587	.2939	.0946	14.16	2 51.9	.3064	10 40.2	3.00
	14	.596	.2922	.0936	14.19	2 51.0	.3060	10 36.7	3.12
	15	.605	.2905	.0925	14.23	2 50.2	.3056	10 33.1	3.25
	16	.614	.2888	.0914	14.26	2 49.4	.3051	10 29.5	3.37
	17	.623	.2872	.0903	14.29	2 48.6	.3047	10 25.9	3.49
	18	.632	.2856	.0891	14.33	2 47.8	.3042	10 22.3	3.61
	19	+1.641	−0.2840	+0.0879	14.36	2 47.0	1.3037	10 18.7	+3.74
	20	.649	.2824	.0867	14.39	2 46.2	.3033	10 15.0	3.86
	21	.658	.2808	.0854	14.42	2 45.4	.3028	10 11.4	3.98
	22	.667	.2792	.0841	14.45	2 44.7	.3023	10 7.7	4.09
	23	.675	.2777	.0828	14.48	2 43.9	.3017	10 4.1	4.21
	24	.684	.2762	.0815	14.51	2 43.1	.3012	10 0.4	4.33
	25	.692	.2747	.0801	14.54	2 42.3	.3006	9 56.7	4.44
	26	.700	.2732	.0787	14.57	2 41.6	.3001	9 53.1	4.56
	27	.709	.2717	.0773	14.60	2 40.8	.2995	9 49.4	4.67
	28	.717	.2703	.0759	14.63	2 40.0	.2989	9 45.6	4.78
	29	+1.725	−0.2689	+0.0745	14.66	2 39.3	1.2984	9 41.9	+4.89
	30	.733	.2675	.0731	14.69	2 38.5	.2978	9 38.2	4.99
	31	.741	.2661	.0716	14.72	2 37.8	.2972	9 34.5	5.10
August	1	.748	.2647	.0701	14.74	2 37.1	.2966	9 30.7	5.21
	2	.756	.2633	.0686	14.77	2 36.3	.2960	9 27.0	5.31
	3	.764	.2620	.0671	14.80,	2 35.6	.2954	9 23.2	5.41
	4	.771	.2607	.0656	14.82	2 34.9	.2947	9 19.4	5.51
	5	.779	.2594	.0640	14.85	2 34.2	.2941	9 15.6	5.61
	6	.787	.2582	.0625	14.88	2 33.5	.2935	9 11.8	5.71
	7	.794	.2569	.0610	14.90	2 32.9	.2929	9 8.0	5.81

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	8	+1.8801	−0.2557	+0.0595	14.″93	$2^h32^m.2$	1.2923	$9^h\ 4^m.1$	+5.″90
	9	.808	.2544	.0579	14.95	2 31.5	.2916	9 0.3	6.00
	10	.815	.2532	.0564	14.98	2 30.8	.2910	8 56.4	6.09
	11	.822	.2519	.0549	15.00	2 30.2	.2904	8 52.5	6.18
	12	.829	.2507	.0534	15.02	2 29.5	.2897	8 48.7	6.27
	13	.836	.2495	.0518	15.05	2 28.9	.2891	8 44.8	6.35
	14	.842	.2483	.0503	15.07	2 28.2	.2885	8 40.9	6.44
	15	.849	.2471	.0488	15.10	2 27.6	.2879	8 36.9	6.52
	16	.855	.2460	.0473	15.12	2 27.0	.2873	8 33.0	6.60
	17	.862	.2449	.0458	15.14	2 26.4	.2866	8 29.1	6.68
	18	+1.868	−0.2438	+0.0444	15.16	2 25.8	1.2860	8 25.1	+6.76
	19	.875	.2427	.0430	15.19	2 25.2	.2854	8 21.1	6.83
	20	.881	.2416	.0416	15.21	2 24.6	.2849	8 17.1	6.91
	21	.887	.2405	.0402	15.23	2 24.0	.2843	8 13.1	6.98
	22	.893	.2394	.0388	15.25	2 23.5	.2837	8 9.1	7.05
	23	.899	.2383	.0374	15.27	2 22.9	.2831	8 5.1	7.12
	24	.905	.2372	.0361	15.30	2 22.4	.2826	8 1.1	7.18
	25	.911	.2361	.0348	15.32	2 21.9	.2820	7 57.0	7.25
	26	.917	.2350	.0335	15.34	2 21.4	.2815	7 53.0	7.31
	27	.922	.2339	.0323	15.36	2 20.8	.2810	7 48.9	7.37
	28	+1.928	−0.2328	+0.0311	15.38	2 20.3	1.2805	7 44.8	+7.43
	29	.934	.2317	.0299	15.40	2 19.8	.2800	7 40.7	7.48
	30	.939	.2307	.0287	15.42	2 19.4	.2795	7 36.6	7.54
	31	.944	.2296	.0276	15.45	2 18.9	.2790	7 32.5	7.59
Septbr.	1	.950	.2286	.0266	15.47	2 18.4	.2786	7 28.4	7.64
	2	.955	.2275	.0256	15.49	2 18.0	.2781	7 24.2	7.68
	3	.960	.2265	.0246	15.51	2 17.5	.2777	7 20.1	7.73
	4	.965	.2254	.0236	15.53	2 17.1	.2773	7 15.9	7.77
	5	.971	.2243	.0227	15.55	2 16.7	.2769	7 11.8	7.81
	6	.976	.2233	.0219	15.57	2 16.3	.2766	7 7.6	7.85
	7	+1.981	−0.2222	+0.0211	15.60	2 15.9	1.2762	7 3.4	+7.89
	8	.986	.2211	.0203	15.62	2 15.5	.2759	6 59.2	7.92
	9	.991	.2200	.0196	15.64	2 15.1	.2756	6 55.0	7.95
	10	1.996	.2189	.0189	15.66	2 14.7	.2753	6 50.8	7.98
	11	2.001	.2178	.0183	15.68	2 14.4	.2750	6 46.6	8.01
	12	.006	.2167	.0177	15.71	2 14.0	.2748	6 42.4	8.03
	13	.011	.2156	.0172	15.73	2 13.7	.2746	6 38.1	8.05
	14	.016	.2145	.0167	15.75	2 13.3	.2744	6 33.9	8.07
	15	.020	.2133	.0163	15.78	2 13.0	.2742	6 29.7	8.09
	16	.025	.2121	.0160	15.80	2 12.7	.2741	6 25.4	8.11
	17	+2.030	−0.2109	+0.0157	15.82	2 12.4	1.2739	6 21.2	+8.12
	18	.035	.2097	.0154	15.85	2 12.1	.2738	6 16.9	8.13
	19	.040	.2085	.0152	15.87	2 11.8	.2737	6 12.6	8.14
	20	.044	.2073	.0151	15.89	2 11.5	.2737	6 8.4	8.14
	21	.049	.2061	.0150	15.92	2 11.3	.2737	6 4.1	8.15
	22	.054	.2048	.0150	15.94	2 11.0	.2737	5 59.8	8.15
	23	.059	.2035	.0150	15.97	2 10.8	.2737	5 55.6	8.15
	24	.063	.2022	.0151	16.00	2 10.5	.2737	5 51.3	8.14
	25	.068	.2009	.0153	16.02	2 10.3	.2737	5 47.0	8.14
	26	.073	.1996	.0155	16.05	2 10.0	.2738	5 42.7	8.13

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	27	+2.078	−0.1982	+0.0157	16.08	2^h 9.8	1.2739	$5^h38^m.4$	+8.12
	28	.082	.1968	.0160	16.10	2 9.6	.2741	5 34.1	8.11
	29	.087	.1954	.0164	16.13	2 9.4	.2742	5 29.9	8.09
	30	.092	.1940	.0168	16.16	2 9.2	.2744	5 25.6	8.07
Oktbr.	1	.097	.1926	.0173	16.19	2 9.0	.2746	5 21.3	8.05
	2	.102	.1911	.0178	16.22	2 8.8	.2748	5 17.0	8.03
	3	.107	.1896	.0184	16.25	2 8.6	.2751	5 12.8	8.00
	4	.112	.1881	.0191	16.28	2 8.5	.2754	5 8.5	7.97
	5	.117	.1865	.0198	16.31	2 8.3	.2757	5 4.2	7.94
	6	.122	.1849	.0205	16.34	2 8.1	.2760	5 0.0	7.91
	7	+2.127	−0.1833	+0.0213	16.38	2 8.0	1.2763	4 55.7	+7.88
	8	.132	.1816	.0221	16.41	2 7.8	.2767	4 51.4	7.84
	9	.137	.1799	.0230	16.44	2 7.7	.2770	4 47.2	7.80
	10	.142	.1782	.0239	16.48	2 7.6	.2774	4 42.9	7.76
	11	.148	.1765	.0249	16.51	2 7.4	.2778	4 38.7	7.72
	12	.153	.1748	.0259	16.55	2 7.3	.2783	4 34.5	7.67
	13	.158	.1730	.0270	16.58	2 7.2	.2787	4 30.2	7.62
	14	.164	.1712	.0281	16.62	2 7.0	.2792	4 26.0	7.57
	15	.169	.1694	.0292	16.66	2 6.9	.2797	4 21.8	7.52
	16	.175	.1675	.0304	16.69	2 6.8	.2802	4 17.6	7.46
	17	+2.181	−0.1656	+0.0316	16.73	2 6.7	1.2807	4 13.4	+7.40
	18	.186	.1637	.0329	16.77	2 6.5	.2812	4 9.2	7.34
	19	.192	.1617	.0342	16.81	2 6.4	.2818	4 5.0	7.28
	20	.198	.1597	.0355	16.85	2 6.3	.2823	4 0.8	7.21
	21	.204	.1576	.0368	16.89	2 6.2	.2829	3 56.7	7.15
	22	.210	.1555	.0382	16.93	2 6.1	.2835	3 52.5	7.08
	23	.216	.1534	.0396	16.98	2 6.0	.2841	3 48.4	7.01
	24	.223	.1513	.0410	17.02	2 5.9	.2847	3 44.2	6.93
	25	.229	.1491	.0425	17.06	2 5.8	.2853	3 40.1	6.86
	26	.235	.1469	.0440	17.11	2 5.7	.2859	3 36.0	6.78
	27	+2.242	−0.1447	+0.0455	17.15	2 5.6	1.2865	3 31.8	+6.70
	28	.248	.1424	.0470	17.20	2 5.5	.2871	3 27.7	6.62
	29	.255	.1401	.0486	17.24	2 5.3	.2878	3 23.6	6.53
	30	.262	.1378	.0501	17.29	2 5.2	.2884	3 19.6	6.45
	31	.269	.1354	.0517	17.34	2 5.1	.2891	3 15.5	6.36
Novbr.	1	.276	.1330	.0533	17.38	2 5.0	.2897	3 11.4	6.27
	2	.283	.1306	.0549	17.43	2 4.9	.2904	3 7.4	6.18
	3	.290	.1282	.0565	17.48	2 4.8	.2910	3 3.3	6.08
	4	.297	.1257	.0581	17.53	2 4.6	.2917	2 59.3	5.99
	5	.305	.1232	.0597	17.58	2 4.5	.2924	2 55.3	5.89
	6	+2.312	−0.1207	+0.0613	17.63	2 4.4	1.2930	2 51.3	+5.79
	7	.320	.1181	.0629	17.68	2 4.2	.2937	2 47.3	5.69
	8	.327	.1155	.0645	17.74	2 4.1	.2943	2 43.3	5.59
	9	.335	.1129	.0661	17.79	2 3.9	.2950	2 39.3	5.48
	10	.343	.1103	.0677	17.84	2 3.7	.2956	2 35.3	5.37
	11	.351	.1076	.0693	17.89	2 3.6	.2962	2 31.4	5.26
	12	.359	.1049	.0708	17.95	2 3.5	.2969	2 27.4	5.15
	13	.367	.1022	.0724	18.00	2 3.4	.2975	2 23.5	5.04
	14	.375	.0994	.0739	18.06	2 3.2	.2981	2 19.5	4.93
	15	.383	.0967	.0754	18.11	2 3.0	.2987	2 15.6	4.81

1848

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	16	+2^s.392	−0.0939	+0.0769	18″.17	2^h 2^m.9	1.2993	2^h11^m.7	+4″.70
	17	.400	.0911	.0784	18.22	2 2.7	.2999	2 7.8	4.58
	18	.409	.0883	.0799	18.28	2 2.5	.3005	2 3.9	4.46
	19	.418	.0855	.0813	18.34	2 2.3	.3011	2 0.0	4.34
	20	.426	.0826	.0827	18.40	2 2.1	.3017	1 56.1	4.22
	21	.435	.0797	.0841	18.45	2 1.9	.3022	1 52.3	4.09
	22	.444	.0768	.0855	18.51	2 1.7	.3028	1 48.4	3.97
	23	.453	.0739	.0868	18.57	2 1.5	.3033	1 44.5	3.84
	24	.463	.0710	.0881	18.63	2 1.3	.3038	1 40.7	3.71
	25	.472	.0681	.0894	18.69	2 1.0	.3043	1 36.9	3.59
	26	+2.481	−0.0651	+0.0906	18.75	2 0.8	1.3048	1 33.0	+3.46
	27	.491	.0621	.0918	18.81	2 0.6	.3053	1 29.2	3.33
	28	.500	.0591	.0929	18.87	2 0.3	.3058	1 25.4	3.19
	29	.509	.0561	.0940	18.93	2 0.1	.3062	1 21.6	3.06
	30	.519	.0531	.0951	18.99	1 59.8	.3066	1 17.8	2.93
Dezbr.	1	.529	.0501	.0961	19.05	1 59.5	.3070	1 14.0	2.79
	2	.538	.0471	.0971	19.11	1 59.3	.3074	1 10.2	2.65
	3	.548	.0441	.0980	19.17	1 59.0	.3078	1 6.4	2.52
	4	.558	.0411	.0989	19.23	1 58.7	.3082	1 2.6	2.38
	5	.568	.0381	.0998	19.29	1 58.4	.3085	0 58.8	2.24
	6	+2.578	−0.0351	+0.1006	19.35	1 58.1	1.3088	0 55.1	+2.10
	7	.588	.0321	.1014	19.41	1 57.8	.3091	0 51.3	1.96
	8	.598	.0291	.1021	19.47	1 57.5	.3094	0 47.5	1.82
	9	.608	.0261	.1028	19.53	1 57.2	.3097	0 43.8	1.68
	10	.618	.0231	.1034	19.59	1 56.9	.3099	0 40.0	1.54
	11	.628	.0200	.1039	19.65	1 56.5	.3101	0 36.3	1.40
	12	.639	.0170	.1044	19.71	1 56.2	.3103	0 32.5	1.25
	13	.649	.0140	.1048	19.77	1 55.9	.3105	0 28.8	1.11
	14	.659	.0110	.1052	19.83	1 55.5	.3106	0 25.0	0.97
	15	.669	.0080	.1056	19.89	1 55.2	.3108	0 21.3	0.82
	16	+2.680	−0.0051	+0.1059	19.95	1 54.8	1.3109	0 17.6	+0.68
	17	.690	−0.0021	.1061	20.01	1 54.4	.3110	0 13.8	0.54
	18	.700	+0.0008	.1063	20.07	1 54.1	.3110	0 10.1	0.39
	19	.711	.0038	.1064	20.13	1 53.7	.3111	0 6.3	0.25
	20	.721	.0067	.1065	20.19	1 53.3	.3111	0 2.6	+0.10
	21	.731	.0097	.1065	20.25	1 52.9	.3111	23 58.9	−0.04
	22	.742	.0126	.1064	20.30	1 52.6	.3111	23 55.1	0.19
	23	.752	.0155	.1063	20.36	1 52.2	.3111	23 51.4	0.33
	24	.763	.0184	.1062	20.42	1 51.8	.3110	23 47.6	0.48
	25	.773	.0213	.1060	20.48	1 51.4	.3109	23 43.9	0.62
	26	+2.783	+0.0241	+0.1057	20.53	1 51.0	1.3108	23 40.1	−0.77
	27	.794	.0269	.1054	20.59	1 50.5	.3107	23 36.4	0.91
	28	.804	.0297	.1051	20.65	1 50.1	.3105	23 32.6	1.06
	29	.814	.0325	.1047	20.70	1 49.7	.3104	23 28.9	1.20
	30	.824	.0352	.1042	20.76	1 49.3	.3102	23 25.1	1.34
	31	.835	.0379	.1037	20.81	1 48.9	.3100	23 21.4	1.48

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	$-0^s.226$	−0.5201	+0.1030	9″.62	$6^h35^m.2$	1.3097	$23^h17^m.6$	−1″.63
	2	.216	.5211	.1023	9.60	6 33.7	.3095	23 13.9	1.77
	3	.206	.5221	.1016	9.58	6 32.2	.3092	23 10.1	1.91
	4	.196	.5232	.1009	9.56	6 30.7	.3089	23 6.3	2.05
	5	.186	.5242	.1001	9.54	6 29.1	.3086	23 2.5	2.19
	6	.176	.5253	.0993	9.52	6 27.6	.3083	22 58.7	2.33
	7	.166	.5263	.0984	9.50	6 26.1	.3079	22 54.9	2.47
	8	.156	.5273	.0975	9.48	6 24.6	.3076	22 51.1	2.61
	9	.147	.5283	.0965	9.46	6 23.1	.3072	22 47.3	2.74
	10	.137	.5294	.0955	9.44	6 21.6	.3068	22 43.5	2.88
	11	−0.127	−0.5304	+0.0944	9.42	6 20.1	1.3064	22 39.7	−3.01
	12	.118	.5315	.0933	9.39	6 18.7	.3059	22 35.9	3.15
	13	.108	.5325	.0922	9.37	6 17.2	.3055	22 32.1	3.28
	14	.099	.5336	.0910	9.35	6 15.7	.3050	22 28.2	3.41
	15	.089	.5347	.0898	9.33	6 14.2	.3045	22 24.4	3.54
	16	.080	.5358	.0885	9.31	6 12.8	.3040	22 20.5	3.67
	17	.071	.5368	.0872	9.29	6 11.3	.3035	22 16.6	3.80
	18	.062	.5379	.0859	9.26	6 9.8	.3030	22 12.8	3.93
	19	.053	.5390	.0845	9.24	6 8.4	.3024	22 8.9	4.06
	20	.044	.5401	.0831	9.22	6 7.0	.3019	22 5.0	4.18
	21	−0.035	−0.5412	+0.0817	9.20	6 5.6	1.3013	22 1.1	−4.30
	22	.026	.5423	.0802	9.18	6 4.1	.3007	21 57.2	4.43
	23	.018	.5434	.0788	9.15	6 2.7	.3001	21 53.3	4.55
	24	−0.009	.5445	.0773	9.13	6 1.3	.2995	21 49.3	4.67
	25	0.000	.5456	.0758	9.11	5 59.9	.2989	21 45.4	4.79
	26	+0.008	.5466	.0743	9.09	5 58.6	.2983	21 41.5	4.90
	27	.016	.5477	.0728	9.07	5 57.2	.2977	21 37.5	5.02
	28	.024	.5487	.0712	9.05	5 55.8	.2970	21 33.5	5.13
	29	.032	.5497	.0696	9.03	5 54.5	.2964	21 29.5	5.24
	30	.041	.5507	.0680	9.01	5 53.1	.2957	21 25.6	5.35
	31	+0.049	−0.5517	+0.0664	8.99	5 51.8	1.2951	21 21.6	−5.46
Februar	1	.056	.5527	.0648	8.97	5 50.4	.2944	21 17.5	5.56
	2	.064	.5537	.0632	8.95	5 49.1	.2938	21 13.5	5.67
	3	.072	.5546	.0616	8.93	5 47.8	.2931	21 9.5	5.77
	4	.079	.5556	.0599	8.91	5 46.5	.2925	21 5.5	5.87
	5	.087	.5565	.0583	8.89	5 45.3	.2918	21 1.4	5.97
	6	.094	.5575	.0567	8.87	5 44.0	.2911	20 57.3	6.07
	7	.101	.5584	.0551	8.86	5 42.8	.2905	20 53.2	6.16
	8	.108	.5593	.0535	8.84	5 41.5	.2898	20 49.1	6.26
	9	.115	.5602	.0519	8.82	5 40.3	.2892	20 45.0	6.35
	10	+0.122	−0.5611	+0.0503	8.80	5 39.1	1.2885	20 40.9	−6.44
	11	.129	.5619	.0488	8.78	5 37.9	.2879	20 36.8	6.52
	12	.136	.5627	.0472	8.77	5 36.7	.2872	20 32.7	6.61
	13	.142	.5635	.0457	8.75	5 35.5	.2866	20 28.5	6.69
	14	.149	.5643	.0442	8.74	5 34.3	.2859	20 24.4	6.77
	15	.155	.5651	.0427	8.72	5 33.1	.2853	20 20.2	6.85
	16	.162	.5659	.0412	8.71	5 31.9	.2847	20 16.0	6.93
	17	.168	.5666	.0398	8.69	5 30.8	.2841	20 11.9	7.00
	18	.174	.5673	.0383	8.68	5 29.7	.2835	20 7.7	7.07
	19	.180	.5680	.0369	8.66	5 28.6	.2829	20 3.5	7.14

1849

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 20	+0.s186	−0.5687	+0.0355	8.″65	$5^h27.^m5$	1.2823	$19^h59.^m3$	−7.″21
21	.192	.5693	.0342	8.64	5 26.4	.2818	19 55.0	7.28
22	.198	.5699	.0329	8.62	5 25.3	.2812	19 50.8	7.34
23	.204	.5705	.0316	8.61	5 24.2	.2807	19 46.6	7.40
24	.210	.5711	.0303	8.60	5 23.1	.2801	19 42.3	7.46
25	.216	.5716	.0291	8.59	5 22.1	.2796	19 38.1	7.52
26	.221	.5721	.0280	8.58	5 21.1	.2791	19 33.8	7.57
27	.227	.5726	.0269	8.57	5 20.1	.2787	19 29.5	7.62
28	.232	.5730	.0258	8.56	5 19.1	.2782	19 25.2	7.67
März 1	.237	.5734	.0248	8.55	5 18.1	.2778	19 21.0	7.72
2	+0.243	−0.5738	+0.0238	8.55	5 17.1	1.2774	19 16.7	−7.76
3	.248	.5741	.0228	8.54	5 16.1	.2770	19 12.4	7.80
4	.253	.5744	.0219	8.53	5 15.1	.2766	19 8.1	7.84
5	.258	.5747	.0211	8.53	5 14.1	.2763	19 3.8	7.88
6	.264	.5750	.0203	8.52	5 13.2	.2759	18 59.5	7.92
7	.269	.5752	.0196	8.52	5 12.2	.2756	18 55.1	7.95
8	.274	.5754	.0189	8.52	5 11.3	.2753	18 50.8	7.98
9	.279	.5755	.0183	8.51	5 10.4	.2750	18 46.5	8.01
10	.284	.5756	.0177	8.51	5 9.5	.2748	18 42.2	8.03
11	.289	.5757	.0172	8.51	5 8.6	.2746	18 37.9	8.06
12	+0.294	−0.5758	+0.0167	8.51	5 7.7	1.2744	18 33.5	−8.08
13	.298	.5758	.0163	8.51	5 6.8	.2742	18 29.2	8.09
14	.303	.5758	.0159	8.51	5 6.0	.2740	18 24.9	8.11
15	.308	.5757	.0156	8.51	5 5.1	.2739	18 20.5	8.12
16	.313	.5756	.0154	8.51	5 4.2	.2738	18 16.2	8.13
17	.318	.5755	.0152	8.51	5 3.4	.2737	18 11.9	8.14
18	.323	.5753	.0151	8.52	5 2.5	.2737	18 7.5	8.14
19	.327	.5751	.0150	8.52	5 1.7	.2736	18 3.2	8.15
20	.332	.5749	.0150	8.52	5 0.8	.2736	17 58.9	8.15
21	.337	.5746	.0150	8.53	5 0.0	.2737	17 54.6	8.15
22	+0.342	−0.5743	+0.0151	8.54	4 59.2	1.2737	17 50.2	−8.14
23	.347	.5739	.0153	8.54	4 58.4	.2738	17 45.9	8.13
24	.351	.5735	.0155	8.55	4 57.5	.2739	17 41.6	8.12
25	.356	.5731	.0158	8.56	4 56.7	.2740	17 37.3	8.11
26	.361	.5726	.0161	8.57	4 55.9	.2741	17 33.0	8.10
27	.366	.5721	.0165	8.58	4 55.1	.2743	17 28.7	8.08
28	.371	.5716	.0169	8.59	4 54.3	.2745	17 24.4	8.07
29	.376	.5710	.0174	8.60	4 53.5	.2747	17 20.1	8.04
30	.381	.5704	.0179	8.62	4 52.7	.2749	17 15.9	8.02
31	.386	.5697	.0185	8.63	4 51.9	.2751	17 11.6	8.00
April 1	+0.391	−0.5690	+0.0192	8.64	4 51.1	1.2754	17 7.3	−7.97
2	.396	.5683	.0199	8.66	4 50.3	.2757	17 3.1	7.94
3	.401	.5675	.0207	8.67	4 49.5	.2760	16 58.8	7.90
4	.406	.5667	.0215	8.69	4 48.7	.2764	16 54.6	7.87
5	.411	.5659	.0223	8.70	4 47.9	.2767	16 50.3	7.83
6	.416	.5650	.0232	8.72	4 47.1	.2771	16 46.1	7.79
7	.422	.5641	.0241	8.74	4 46.4	.2775	16 41.9	7.75
8	.427	.5632	.0251	8.76	4 45.6	.2779	16 37.7	7.70
9	.432	.5622	.0261	8.78	4 44.8	.2784	16 33.5	7.66
10	.438	.5612	.0272	8.80	4 44.0	.2788	16 29.3	7.61

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	11	+0.443	−0.5602	+0.0283	8″82	4^h43^m2	1.2793	16^h25^m2	−7″56
	12	.449	.5591	.0294	8.84	4 42.4	.2798	16 21.0	7.50
	13	.454	.5580	.0306	8.86	4 41.6	.2803	16 16.9	7.45
	14	.460	.5568	.0318	8.89	4 40.8	.2808	16 12.7	7.39
	15	.466	.5556	.0330	8.91	4 40.0	.2813	16 8.6	7.33
	16	.472	.5544	.0343	8.93	4 39.2	.2818	16 4.5	7.27
	17	.477	.5532	.0356	8.96	4 38.3	.2823	16 0.4	7.21
	18	.483	.5519	.0369	8.99	4 37.5	.2829	15 56.3	7.14
	19	.490	.5506	.0383	9.01	4 36.7	.2835	15 52.3	7.08
	20	.496	.5493	.0397	9.04	4 35.9	.2840	15 48.2	7.01
	21	+0.502	−0.5479	+0.0411	9.07	4 35.0	1.2846	15 44.2	−6.93
	22	.508	.5465	.0425	9.09	4 34.2	.2852	15 40.1	6.86
	23	.514	.5451	.0439	9.12	4 33.3	.2858	15 36.1	6.78
	24	.521	.5436	.0454	9.15	4 32.5	.2864	15 32.1	6.71
	25	.527	.5422	.0469	9.18	4 31.6	.2871	15 28.1	6.63
	26	.534	.5407	.0484	9.21	4 30.8	.2877	15 24.2	6.54
	27	.541	.5392	.0499	9.24	4 29.9	.2883	15 20.2	6.46
	28	.547	.5377	.0514	9.27	4 29.1	.2889	15 16.2	6.38
	29	.554	.5362	.0530	9.30	4 28.2	.2896	15 12.3	6.29
	30	.561	.5346	.0545	9.33	4 27.3	.2902	15 8.4	6.20
Mai	1	+0.568	−0.5330	+0.0560	9.36	4 26.4	1.2908	15 4.5	−6.11
	2	.575	.5313	.0575	9.40	4 25.5	.2915	15 0.6	6.02
	3	.583	.5297	.0591	9.43	4 24.6	.2921	14 56.7	5.92
	4	.590	.5280	.0606	9.46	4 23.7	.2927	14 52.8	5.83
	5	.597	.5263	.0622	9.50	4 22.8	.2934	14 49.0	5.73
	6	.605	.5246	.0637	9.53	4 21.9	.2940	14 45.1	5.63
	7	.612	.5229	.0653	9.57	4 21.0	.2946	14 41.3	5.53
	8	.620	.5212	.0668	9.60	4 20.0	.2952	14 37.5	5.43
	9	.628	.5195	.0683	9.64	4 19.1	.2959	14 33.7	5.33
	10	.635	.5177	.0698	9.67	4 18.2	.2965	14 29.9	5.22
	11	+0.643	−0.5159	+0.0713	9.71	4 17.2	1.2971	14 26.1	−5.12
	12	.651	.5141	.0728	9.74	4 16.3	.2977	14 22.3	5.01
	13	.659	.5123	.0743	9.78	4 15.3	.2983	14 18.6	4.90
	14	.667	.5104	.0757	9.82	4 14.3	.2989	14 14.8	4.79
	15	.676	.5086	.0771	9.85	4 13.3	.2994	14 11.1	4.68
	16	.684	.5067	.0785	9.89	4 12.4	.3000	14 7.3	4.57
	17	.692	.5049	.0799	9.93	4 11.4	.3006	14 3.6	4.45
	18	.701	.5030	.0813	9.96	4 10.4	.3011	13 59.9	4.34
	19	.709	.5012	.0826	10.00	4 9.4	.3016	13 56.2	4.22
	20	.718	.4993	.0839	10.04	4 8.4	.3022	13 52.6	4.11
	21	+0.727	−0.4974	+0.0852	10.08	4 7.4	1.3027	13 48.9	−3.99
	22	.735	.4955	.0865	10.12	4 6.4	.3032	13 45.2	3.87
	23	.744	.4936	.0878	10.15	4 5.4	.3037	13 41.6	3.74
	24	.753	.4917	.0890	10.19	4 4.3	.3042	13 37.9	3.62
	25	.762	.4898	.0902	10.23	4 3.3	.3047	13 34.3	3.50
	26	.771	.4879	.0913	10.27	4 2.3	.3051	13 30.7	3.38
	27	.780	.4860	.0924	10.31	4 1.3	.3055	13 27.1	3.25
	28	.789	.4841	.0935	10.34	4 0.2	.3060	13 23.5	3.13
	29	.799	.4822	.0945	10.38	3 59.2	.3064	13 19.9	3.00
	30	.808	.4803	.0955	10.42	3 58.1	.3068	13 16.3	2.87

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	31	+0.817	−0.4784	+0.0965	10.″46	$3^h57.^m0$	1.3072	$13^h12.^m7$	−2.″75
Juni	1	.827	.4764	.0974	10.50	3 56.0	.3075	13 9.1	2.62
	2	.836	.4745	.0983	10.54	3 54.9	.3079	13 5.6	2.49
	3	.846	.4726	.0991	10.57	3 53.9	.3082	13 2.0	2.36
	4	.855	.4707	.0999	10.61	3 52.8	.3085	12 58.5	2.23
	5	.865	.4688	.1007	10.65	3 51.8	.3088	12 54.9	2.09
	6	.874	.4669	.1014	10.69	3 50.7	.3091	12 51.4	1.96
	7	.884	.4650	.1020	10.73	3 49.6	.3094	12 47.8	1.83
	8	.894	.4631	.1026	10.77	3 48.5	.3096	12 44.3	1.70
	9	.904	.4612	.1032	10.80	3 47.4	.3098	12 40.8	1.57
	10	+0.913	−0.4593	+0.1038	10.84	3 46.3	1.3100	12 37.2	−1.43
	11	.923	.4575	.1043	10.88	3 45.2	.3102	12 33.7	1.30
	12	.933	.4556	.1047	10.92	3 44.1	.3104	12 30.2	1.17
	13	.943	.4538	.1051	10.95	3 43.0	.3106	12 26.7	1.03
	14	.953	.4519	.1054	10.99	3 41.9	.3107	12 23.2	0.90
	15	.962	.4501	.1057	11.03	3 40.8	.3108	12 19.7	0.76
	16	.972	.4482	.1059	11.06	3 39.7	.3109	12 16.1	0.63
	17	.982	.4464	.1061	11.10	3 38.6	.3110	12 12.6	0.49
	18	0.992	.4446	.1063	11.14	3 37.5	.3110	12 9.1	0.35
	19	1.002	.4428	.1064	11.17	3 36.4	.3111	12 5.6	0.22
	20	+1.012	−0.4410	+0.1065	11.21	3 35.3	1.3111	12 2.1	−0.08
	21	.022	.4392	.1065	11.24	3 34.2	.3111	11 58.6	+0.05
	22	.032	.4374	.1064	11.28	3 33.0	.3111	11 55.1	0.19
	23	.042	.4357	.1063	11.31	3 31.9	.3111	11 51.6	0.32
	24	.052	.4340	.1062	11.35	3 30.8	.3110	11 48.1	0.46
	25	.062	.4323	.1060	11.38	3 29.7	.3109	11 44.6	0.59
	26	.072	.4306	.1058	11.42	3 28.6	.3108	11 41.1	0.73
	27	.082	.4289	.1055	11.45	3 27.5	.3107	11 37.6	0.86
	28	.092	.4272	.1052	11.49	3 26.4	.3106	11 34.1	1.00
	29	.101	.4255	.1048	11.52	3 25.3	.3104	11 30.6	1.13
	30	+1.111	−0.4238	+0.1044	11.55	3 24.2	1.3103	11 27.1	+1.27
Juli	1	.121	.4222	.1039	11.59	3 23.1	.3101	11 23.6	1.40
	2	.131	.4205	.1034	11.62	3 22.0	.3099	11 20.1	1.54
	3	.140	.4189	.1028	11.65	3 20.9	.3097	11 16.6	1.67
	4	.150	.4173	.1022	11.68	3 19.8	.3094	11 13.0	1.80
	5	.160	.4157	.1015	11.72	3 18.7	.3092	11 9.5	1.93
	6	.170	.4141	.1008	11.75	3 17.6	.3089	11 6.0	2.06
	7	.179	.4126	.1001	11.78	3 16.5	.3086	11 2.4	2.20
	8	.189	.4111	.0993	11.81	3 15.4	.3083	10 58.9	2.33
	9	.198	.4096	.0985	11.84	3 14.4	.3080	10 55.4	2.45
	10	+1.208	−0.4081	+0.0976	11.87	3 13.3	1.3076	10 51.8	+2.58
	11	.217	.4066	.0967	11.90	3 12.2	.3073	10 48.2	2.71
	12	.226	.4051	.0958	11.93	3 11.1	.3069	10 44.7	2.84
	13	.236	.4037	.0948	11.96	3 10.1	.3065	10 41.1	2.96
	14	.245	.4023	.0938	11.99	3 9.0	.3061	10 37.5	3.09
	15	.254	.4009	.0927	12.01	3 8.0	.3057	10 33.9	3.22
	16	.263	.3995	.0916	12.04	3 6.9	.3052	10 30.4	3.34
	17	.272	.3981	.0905	12.07	3 5.9	.3048	10 26.8	3.46
	18	.281	.3967	.0894	12.10	3 4.8	.3043	10 23.2	3.59
	19	.290	.3953	.0872	12.12	3 3.8	.3039	10 19.5	3.71

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	20	+1.299	−0.3940	+0.0870	12.″15	$3^h\ 2^m.8$	1.3034	$10^h15^m.9$	+3.″83
	21	.308	.3927	.0857	12.18	3 1.7	.3029	10 12.3	3.95
	22	.317	.3914	.0844	12.20	3 0.7	.3024	10 8.6	4.07
	23	.325	.3901	.0831	12.23	2 59.7	.3019	10 5.0	4.18
	24	.334	.3888	.0818	12.26	2 58.7	.3013	10 1.3	4.30
	25	.342	.3875	.0804	12.28	2 57.7	.3008	9 57.6	4.41
	26	.351	.3862	.0790	12.31	2 56.7	.3002	9 53.9	4.53
	27	.359	.3850	.0776	12.33	2 55.7	.2996	9 50.2	4.64
	28	.367	.3838	.0762	12.36	2 54.8	.2991	9 46.5	4.75
	29	.375	.3826	.0748	12.38	2 53.8	.2985	9 42.8	4.86
	30	+1.384	−0.3814	+0.0734	12.40	2 52.8	1.2979	9 39.1	+4.97
	31	.392	.3803	.0719	12.43	2 51.9	.2973	9 35.4	5.08
August	1	.400	.3791	.0704	12.45	2 50.9	.2967	9 31.6	5.18
	2	.407	.3780	.0689	12.47	2 50.0	.2961	9 27.9	5.29
	3	.415	.3768	.0674	12.50	2 49.1	.2955	9 24.1	5.39
	4	.423	.3757	.0659	12.52	2 48.2	.2949	9 20.3	5.49
	5	.430	.3746	.0644	12.54	2 47.3	.2943	9 16.5	5.59
	6	.438	.3735	.0629	12.56	2 46.4	.2937	9 12.7	5.69
	7	.445	.3724	.0614	12.58	2 45.5	.2930	9 8.9	5.79
	8	.453	.3714	.0599	12.60	2 44.6	.2924	9 5.1	5.88
	9	+1.460	−0.3703	+0.0583	12.63	2 43.7	1.2918	9 1.2	+5.97
	10	.467	.3693	.0568	12.65	2 42.9	.2912	8 57.4	6.07
	11	.474	.3682	.0552	12.67	2 42.0	.2905	8 53.5	6.16
	12	.481	.3672	.0537	12.69	2 41.2	.2899	8 49.6	6.25
	13	.488	.3662	.0522	12.71	2 40.4	.2893	8 45.7	6.33
	14	.495	.3652	.0507	12.73	2 39.5	.2886	8 41.8	6.42
	15	.502	.3642	.0492	12.75	2 38.7	.2880	8 37.9	6.50
	16	.508	.3632	.0477	12.77	2 37.9	.2874	8 34.0	6.58
	17	.515	.3622	.0462	12.79	2 37.1	.2868	8 30.0	6.66
	18	.521	.3612	.0448	12.81	2 36.4	.2862	8 26.1	6.74
	19	+1.528	−0.3602	+0.0433	12.83	2 35.6	1.2856	8 22.1	+6.82
	20	.534	.3593	.0419	12.85	2 34.9	.2850	8 18.1	6.89
	21	.540	.3583	.0405	12.87	2 34.1	.2844	8 14.1	6.96
	22	.546	.3574	.0391	12.89	2 33.4	.2838	8 10.1	7.03
	23	.553	.3564	.0377	12.90	2 32.7	.2833	8 6.1	7.10
	24	.559	.3555	.0364	12.92	2 32.0	.2827	8 2.0	7.17
	25	.565	.3545	.0351	12.94	2 31.3	.2822	7 58.0	7.23
	26	.571	.3536	.0338	12.96	2 30.6	.2816	7 53.9	7.30
	27	.576	.3526	.0326	12.98	2 29.9	.2811	7 49.9	7.36
	28	.582	.3517	.0314	13.00	2 29.3	.2806	7 45.8	7.41
	29	+1.588	−0.3508	+0.0302	13.02	2 28.6	1.2801	7 41.7	+7.47
	30	.593	.3498	.0291	13.04	2 28.0	.2796	7 37.6	7.52
	31	.599	.3489	.0280	13.06	2 27.4	.2791	7 33.5	7.57
Septbr.	1	.605	.3479	.0269	13.07	2 26.8	.2787	7 29.4	7.62
	2	.610	.3470	.0259	13.09	2 26.2	.2782	7 25.2	7.67
	3	.615	.3460	.0249	13.11	2 25.6	.2778	7 21.1	7.72
	4	.621	.3451	.0239	13.13	2 25.0	.2774	7 16.9	7.76
	5	.626	.3441	.0230	13.15	2 24.4	.2770	7 12.8	7.80
	6	.631	.3432	.0221	13.17	2 23.9	.2767	7 8.6	7.84
	7	.637	.3422	.0213	13.19	2 23.4	.2763	7 4.4	7.88

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	8	$+1^s.642$	−0.3412	+0.0205	13″.21	$2^h 22^m.8$	1.2760	$7^h\ 0^m.2$	+7″.91
	9	.647	.3402	.0198	13.23	2 22.3	.2757	6 56.0	7.94
	10	.652	.3392	.0191	13.25	2 21.8	.2754	6 51.8	7.97
	11	.657	.3382	.0184	13.27	2 21.3	.2751	6 47.6	8.00
	12	.662	.3372	.0178	13.29	2 20.9	.2748	6 43.4	8.03
	13	.667	.3361	.0173	13.31	2 20.4	.2746	6 39.2	8.05
	14	.672	.3351	.0169	13.33	2 20.0	.2744	6 34.9	8.07
	15	.677	.3340	.0165	13.35	2 19.5	.2742	6 30.7	8.09
	16	.682	.3329	.0161	13.38	2 19.1	.2741	6 26.4	8.10
	17	.687	.3318	.0158	13.40	2 18.7	.2740	6 22.2	8.12
	18	+1.692	−0.3307	+0.0156	13.42	2 18.3	1.2739	6 17.9	+8.13
	19	.697	.3295	.0154	13.44	2 17.9	.2738	6 13.7	8.14
	20	.701	.3284	.0152	13.47	2 17.5	.2737	6 9.4	8.14
	21	.706	.3272	.0151	13.49	2 17.1	.2737	6 5.1	8.15
	22	.711	.3260	.0150	13.51	2 16.7	.2736	6 0.9	8.15
	23	.716	.3248	.0150	13.54	2 16.4	.2736	5 56.6	8.15
	24	.721	.3236	.0151	13.56	2 16.0	.2737	5 52.3	8.14
	25	.726	.3224	.0152	13.59	2 15.7	.2737	5 48.0	8.14
	26	.731	.3211	.0154	13.61	2 15.4	.2738	5 43.7	8.13
	27	.735	.3198	.0156	13.64	2 15.0	.2739	5 39.5	8.12
	28	+1.740	−0.3185	+0.0159	13.66	2 14.7	1.2740	5 35.2	+8.11
	29	.745	.3172	.0163	13.69	2 14.4	.2742	5 30.9	8.09
	30	.750	.3158	.0167	13.72	2 14.1	.2744	5 26.6	8.08
Oktbr.	1	.755	.3144	.0172	13.75	2 13.8	.2746	5 22.4	8.06
	2	.760	.3130	.0177	13.78	2 13.6	.2748	5 18.1	8.03
	3	.765	.3115	.0183	13.80	2 13.3	.2750	5 13.8	8.01
	4	.770	.3101	.0189	13.83	2 13.0	.2753	5 9.5	7.98
	5	.775	.3086	.0196	13.86	2 12.8	.2756	5 5.3	7.95
	6	.780	.3071	.0203	13.89	2 12.5	.2759	5 1.0	7.92
	7	.786	.3055	.0211	13.93	2 12.3	.2762	4 56.7	7.89
	8	+1.791	−0.3039	+0.0219	13.96	2 12.1	1.2766	4 52.5	+7.85
	9	.796	.3023	.0228	13.99	2 11.8	.2769	4 48.2	7.81
	10	.802	.3007	.0237	14.02	2 11.6	.2773	4 44.0	7.77
	11	.807	.2990	.0247	14.06	2 11.4	.2777	4 39.7	7.73
	12	.813	.2973	.0257	14.09	2 11.2	.2782	4 35.5	7.68
	13	.818	.2956	.0267	14.12	2 11.0	.2786	4 31.3	7.63
	14	.824	.2938	.0278	14.16	2 10.8	.2791	4 27.0	7.58
	15	.829	.2920	.0289	14.20	2 10.6	.2796	4 22.8	7.53
	16	.835	.2902	.0301	14.23	2 10.4	.2801	4 18.6	7.47
	17	.841	.2884	.0313	14.27	2 10.2	.2806	4 14.4	7.42
	18	+1.847	−0.2865	+0.0326	14.31	2 10.0	1.2811	4 10.2	+7.36
	19	.852	.2846	.0339	14.35	2 9.8	.2816	4 6.0	7.29
	20	.858	.2826	.0352	14.38	2 9.6	.2822	4 1.9	7.23
	21	.865	.2806	.0365	14.42	2 9.5	.2828	3 57.7	7.16
	22	.871	.2786	.0379	14.47	2 9.3	.2833	3 53.5	7.09
	23	.877	.2765	.0393	14.51	2 9.1	.2839	3 49.4	7.02
	24	.883	.2744	.0407	14.55	2 8.9	.2845	3 45.2	6.95
	25	.890	.2723	.0422	14.59	2 8.7	.2851	3 41.1	6.87
	26	.896	.2702	.0437	14.63	2 8.5	.2857	3 37.0	6.80
	27	.903	2680	.0452	14.68	2 8.4	.2864	3 32.8	6.72

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	28	+1.910	−0.2658	+0.0467	14.″72	$2^h\ 8.^m2$	1.2870	$3^h28.^m7$	+6.″64
	29	.916	.2635	.0483	14.77	2 8.0	.2876	3 24.6	6.55
	30	.923	.2612	.0498	14.81	2 7.8	.2883	3 20.6	6.47
	31	.930	.2589	.0514	14.86	2 7.6	.2889	3 16.5	6.38
Novbr.	1	.937	.2566	.0529	14.91	2 7.4	.2896	3 12.4	6.29
	2	.944	.2542	.0545	14.95	2 7.2	.2902	3 8.4	6.20
	3	.952	.2518	.0561	15.00	2 7.1	.2909	3 4.3	6.11
	4	.959	.2494	.0577	15.05	2 6.9	.2915	3 0.3	6.01
	5	.967	.2470	.0593	15.10	2 6.7	.2922	2 56.3	5.91
	6	.974	.2445	.0609	15.15	2 6.5	.2928	2 52.2	5.81
	7	+1.982	−0.2420	+0.0625	15.20	2 6.3	1.2935	2 48.2	+5.71
	8	.990	.2395	.0641	15.25	2 6.1	.2942	2 44.2	5.61
	9	1.997	.2369	.0657	15.30	2 5.8	.2948	2 40.2	5.51
	10	2.005	.2343	.0673	15.35	2 5.6	.2955	2 36.3	5.40
	11	.013	.2317	.0689	15.41	2 5.4	.2961	2 32.3	5.29
	12	.022	.2291	.0704	15.46	2 5.2	.2967	2 28.4	5.18
	13	.030	.2264	.0720	15.51	2 4.9	.2973	2 24.4	5.07
	14	.038	.2237	.0735	15.57	2 4.7	.2980	2 20.5	4.96
	15	.047	.2210	.0750	15.62	2 4.5	.2986	2 16.5	4.84
	16	.055	.2183	.0765	15.67	2 4.2	.2992	2 12.6	4.73
	17	+2.064	−0.2155	+0.0780	15.73	2 4.0	1.2998	2 8.7	+4.61
	18	.072	.2127	.0794	15.79	2 3.7	.3004	2 4.8	4.49
	19	.081	.2099	.0809	15.84	2 3.5	.3010	2 0.9	4.37
	20	.090	.2071	.0823	15.90	2 3.2	.3015	1 57.1	4.25
	21	.099	.2043	.0837	15.96	2 2.9	.3021	1 53.2	4.12
	22	.108	.2014	.0851	16.01	2 2.6	.3026	1 49.3	4.00
	23	.117	.1985	.0865	16.07	2 2.4	.3032	1 45.5	3.87
	24	.127	.1956	.0878	16.13	2 2.1	.3037	1 41.6	3.75
	25	.136	.1927	.0891	16.19	2 1.8	.3042	1 37.8	3.62
	26	.145	.1898	.0903	16.25	2 1.4	.3047	1 33.9	3.49
	27	+2.155	−0.1869	+0.0915	16.30	2 1.1	1.3052	1 30.1	+3.36
	28	.164	.1839	.0926	16.36	2 0.8	.3056	1 26.3	3.23
	29	.174	.1810	.0937	16.42	2 0.5	.3061	1 22.5	3.09
	30	.184	.1780	.0948	16.48	2 0.1	.3065	1 18.7	2.96
Dezbr.	1	.194	.1751	.0959	16.54	1 59.8	.3069	1 14.9	2.82
	2	.203	.1721	.0969	16.60	1 59.4	.3073	1 11.1	2.69
	3	.213	.1692	.0979	16.66	1 59.1	.3077	1 7.3	2.55
	4	.223	.1662	.0988	16.72	1 58.7	.3081	1 3.5	2.41
	5	.233	.1632	.0996	16.78	1 58.4	.3084	0 59.7	2.28
	6	.243	.1602	.1004	16.84	1 58.0	.3087	0 56.0	2.14
	7	+2.254	−0.1572	+0.1012	16.90	1 57.6	1.3090	0 52.2	+2.00
	8	.264	.1542	.1019	16.96	1 57.2	.3093	0 48.4	1.86
	9	.274	.1512	.1026	17.02	1 56.8	.3096	0 44.7	1.71
	10	.284	.1482	.1032	17.08	1 56.4	.3098	0 40.9	1.57
	11	.295	.1452	.1037	17.14	1 56.0	.3100	0 37.2	1.43
	12	.305	.1422	.1042	17.20	1 55.6	.3102	0 33.4	1.29
	13	.315	.1392	.1047	17.26	1 55.2	.3104	0 29.7	1.15
	14	.326	.1362	.1051	17.32	1 54.7	.3106	0 25.9	1.00
	15	.336	.1332	.1055	17.38	1 54.3	.3107	0 22.2	0.86
	16	.347	.1303	.1058	17.44	1 53.9	.3108	0 18.5	0.71

1849

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	17	$+2^s.357$	−0.1273	+0.1060	17″.50	$1^h53^m.4$	1.3109	$0^h14^m.7$	+0″.57
	18	.368	.1244	.1062	17.56	1 53.0	.3110	0 11.0	0.43
	19	.378	.1214	.1063	17.62	1 52.5	.3111	0 7.3	0.28
	20	.389	.1185	.1064	17.67	1 52.0	.3111	0 3.5	+0.14
	21	.399	.1156	.1064	17.73	1 51.6	.3111	23 59.8	−0.01
	22	.410	.1127	.1064	17.79	1 51.1	.3111	23 56.0	0.15
	23	.420	.1098	.1063	17.85	1 50.6	.3111	23 52.3	0.30
	24	.431	.1069	.1062	17.91	1 50.1	.3110	23 48.5	0.44
	25	.441	.1040	.1060	17.96	1 49.7	.3109	23 44.8	0.59
	26	.452	.1012	.1058	18.02	1 49.2	.3108	23 41.0	0.73
	27	+2.462	−0.0984	+0.1055	18.08	1 48.7	1.3107	23 37.3	−0.88
	28	.473	.0956	.1052	18.13	1 48.2	.3106	23 33.5	1.02
	29	.483	.0928	.1048	18.19	1 47.7	.3104	23 29.8	1.16
	30	.493	.0900	.1043	18.25	1 47.2	.3102	23 26.0	1.31
	31	.504	.0872	.1038	18.30	1 46.7	.3100	23 22.3	1.45

1850

Januar	1	$-0^s.557$	−0.5527	+0.1032	8″.97	$7^h35^m.4$	1.3098	$23^h18^m.5$	−1″.59
	2	.547	.5547	.1025	8.93	7 34.0	.3096	23 14.8	1.73
	3	.537	.5566	.1018	8.89	7 32.5	.3093	23 11.0	1.88
	4	.527	.5586	.1011	8.85	7 31.1	.3090	23 7.2	2.02
	5	.516	.5605	.1003	8.81	7 29.7	.3087	23 3.4	2.16
	6	.506	.5625	.0995	8.77	7 28.2	.3084	22 59.7	2.30
	7	.496	.5644	.0986	8.73	7 26.8	.3080	22 55.9	2.43
	8	.486	.5664	.0977	8.69	7 25.4	.3077	22 52.1	2.57
	9	.476	.5683	.0967	8.66	7 23.9	.3073	22 48.3	2.71
	10	.467	.5703	.0957	8.62	7 22.5	.3069	22 44.5	2.85
	11	−0.457	−0.5722	+0.0947	8.58	7 21.1	1.3065	22 40.6	−2.98
	12	.447	.5742	.0936	8.54	7 19.7	.3060	22 36.8	3.12
	13	.437	.5762	.0925	8.50	7 18.2	.3056	22 33.0	3.25
	14	.428	.5782	.0913	8.46	7 16.8	.3051	22 29.2	3.38
	15	.418	.5802	.0901	8.42	7 15.4	.3046	22 25.3	3.51
	16	.409	.5821	.0888	8.38	7 14.0	.3041	22 21.5	3.64
	17	.399	.5841	.0875	8.34	7 12.5	.3036	22 17.6	3.77
	18	.390	.5860	.0862	8.30	7 11.1	.3031	22 13.7	3.90
	19	.381	.5879	.0849	8.26	7 9.7	.3025	22 9.8	4.03
	20	.372	.5898	.0835	8.22	7 8.3	.3020	22 6.0	4.15
	21	−0.363	−0.5918	+0.0821	8.18	7 6.9	1.3014	22 2.1	−4.27
	22	.354	.5937	.0806	8.15	7 5.5	.3008	21 58.1	4.40
	23	.345	.5957	.0792	8.11	7 4.1	.3002	21 54.2	4.52
	24	.336	.5976	.0777	8.07	7 2.8	.2997	21 50.3	4.64
	25	.327	.5995	.0762	8.03	7 1.4	.2991	21 46.4	4.76
	26	.319	.6013	.0747	7.99	7 0.0	.2984	21 42.4	4.87
	27	.310	.6032	.0732	7.96	6 58.7	.2978	21 38.5	4.99
	28	.302	.6050	.0716	7.92	6 57.3	.2972	21 34.5	5.10
	29	.293	.6069	.0700	7.88	6 56.0	.2965	21 30.5	5.21
	30	.285	.6087	.0684	7.85	6 54.6	.2959	21 26.5	5.32

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	31	$-0^s.277$	−0.6105	+0.0668	7″.81	$6^h53^m.3$	1.2952	$21^h22^m.5$	−5″.43
Februar	1	.269	.6123	.0652	7.77	6 51.9	.2946	21 18.5	5.54
	2	.261	.6141	.0636	7.74	6 50.6	.2939	21 14.5	5.64
	3	.253	.6158	.0620	7.70	6 49.3	.2933	21 10.5	5.74
	4	.246	.6175	.0603	7.67	6 48.0	.2926	21 6.4	5.85
	5	.238	.6192	.0587	7.63	6 46.7	.2920	21 2.4	5.95
	6	.231	.6209	.0571	7.60	6 45.4	.2913	20 58.3	6.05
	7	.223	.6226	.0555	7.57	6 44.1	.2906	20 54.2	6.14
	8	.216	.6243	.0539	7.53	6 42.9	.2900	20 50.1	6.24
	9	.209	.6259	.0523	7.50	6 41.6	.2893	20 46.0	6.33
	10	−0.202	−0.6275	+0.0507	7.47	6 40.3	1.2887	20 41.9	−6.41
	11	.195	.6291	.0492	7.44	6 39.1	.2880	20 37.8	6.50
	12	.188	.6307	.0476	7.41	6 37.8	.2874	20 33.7	6.59
	13	.181	.6322	.0461	7.38	6 36.6	.2867	20 29.5	6.67
	14	.174	.6337	.0446	7.35	6 35.3	.2861	20 25.4	6.75
	15	.168	.6352	.0431	7.32	6 34.1	.2855	20 21.2	6.83
	16	.161	.6366	.0416	7.29	6 32.9	.2848	20 17.1	6.91
	17	.155	.6380	.0401	7.26	6 31.6	.2842	20 12.9	6.99
	18	.148	.6394	.0386	7.23	6 30.4	.2836	20 8.7	7.06
	19	.142	.6408	.0372	7.20	6 29.2	.2831	20 4.5	7.13
	20	−0.136	−0.6421	+0.0358	7.18	6 28.0	1.2825	20 0.3	−7.20
	21	.130	.6434	.0345	7.15	6 26.8	.2819	19 56.1	7.26
	22	.124	.6447	.0332	7.13	6 25.6	.2813	19 51.8	7.33
	23	.117	.6459	.0319	7.10	6 24.4	.2808	19 47.6	7.39
	24	.111	.6471	.0306	7.08	6 23.3	.2803	19 43.4	7.45
	25	.106	.6482	.0294	7.05	6 22.1	.2798	19 39.1	7.50
	26	.100	.6493	.0282	7.03	6 20.9	.2793	19 34.8	7.56
	27	.094	.6504	.0271	7.01	6 19.8	.2788	19 30.6	7.61
	28	.089	.6515	.0260	6.99	6 18.6	.2783	19 26.3	7.66
März	1	.083	.6525	.0250	6.97	6 17.5	.2779	19 22.0	7.71
	2	−0.078	−0.6535	+0.0240	6.95	6 16.3	1.2775	19 17.7	−7.75
	3	.072	.6544	.0230	6.93	6 15.2	.2771	19 13.4	7.80
	4	.067	.6553	.0221	6.91	6 14.1	.2767	19 9.1	7.84
	5	.061	.6562	.0213	6.89	6 12.9	.2763	19 4.8	7.87
	6	.056	.6570	.0205	6.88	6 11.8	.2760	19 0.5	7.91
	7	.051	.6578	.0198	6.86	6 10.7	.2757	18 56.2	7.94
	8	.046	.6586	.0191	6.85	6 9.6	.2754	18 51.9	7.97
	9	.040	.6593	.0185	6.83	6 8.5	.2751	18 47.6	8.00
	10	.035	.6600	.0179	6.82	6 7.3	.2748	18 43.2	8.03
	11	.030	.6606	.0173	6.81	6 6.2	.2746	18 38.9	8.05
	12	−0.025	−0.6612	+0.0168	6.79	6 5.1	1.2744	18 34.6	−8.07
	13	.020	.6617	.0164	6.78	6 4.0	.2742	18 30.2	8.09
	14	.015	.6622	.0160	6.77	6 2.9	.2741	18 25.9	8.11
	15	.010	.6627	.0157	6.76	6 1.8	.2739	18 21.6	8.12
	16	−0.005	.6631	.0154	6.75	6 0.7	.2738	18 17.3	8.13
	17	0.000	.6635	.0152	6.75	5 59.6	.2737	18 12.9	8.14
	18	+0.005	.6639	.0151	6.74	5 58.4	.2737	18 8.6	8.14
	19	.010	.6642	.0150	6.73	5 57.3	.2736	18 4.3	8.15
	20	.015	.6645	.0150	6.73	5 56.2	.2736	17 59.9	8.15
	21	.020	.6647	.0150	6.72	5 55.1	.2737	17 55.6	8.15

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	22	+0.025	−0.6649	+0.0151	6".72	$5^h 54^m.0$	1.2737	$17^h 51^m.3$	−8".14
	23	.030	.6650	.0152	6.72	5 52.9	.2738	17 47.0	8.14
	24	.035	.6651	.0154	6.71	5 51.8	.2738	17 42.7	8.13
	25	.040	.6652	.0157	6.71	5 50.7	.2739	17 38.3	8.12
	26	.045	.6652	.0160	6.71	5 49.6	.2741	17 34.0	8.10
	27	.050	.6652	.0164	6.71	5 48.4	.2742	17 29.7	8.09
	28	.055	.6652	.0168	6.71	5 47.3	.2744	17 25.4	8.07
	29	.060	.6651	.0173	6.72	5 46.2	.2746	17 21.2	8.05
	30	.065	.6650	.0178	6.72	5 45.0	.2748	17 16.9	8.03
	31	.070	.6648	.0184	6.72	5 43.9	.2751	17 12.6	8.00
April	1	+0.075	−0.6646	+0.0190	6.73	5 42.7	1.2754	17 8.3	−7.97
	2	.080	.6643	.0197	6.73	5 41.6	.2757	17 4.1	7.94
	3	.086	.6640	.0204	6.74	5 40.4	.2760	16 59.8	7.91
	4	.091	.6637	.0212	6.74	5 39.3	.2763	16 55.6	7.88
	5	.096	.6634	.0220	6.75	5 38.1	.2766	16 51.4	7.84
	6	.102	.6630	.0229	6.76	5 37.0	.2770	16 47.1	7.80
	7	.107	.6626	.0238	6.77	5 35.8	.2774	16 42.9	7.76
	8	.113	.6621	.0248	6.78	5 34.6	.2778	16 38.7	7.72
	9	.118	.6616	.0258	6.79	5 33.4	.2783	16 34.5	7.67
	10	.124	.6610	.0269	6.80	5 32.2	.2787	16 30.4	7.62
	11	+0.129	−0.6604	+0.0280	6.81	5 31.0	1.2792	16 26.2	−7.57
	12	.135	.6598	.0291	6.82	5 29.8	.2796	16 22.0	7.52
	13	.141	.6592	.0303	6.83	5 28.6	.2801	16 17.9	7.46
	14	.147	.6585	.0315	6.85	5 27.4	.2806	16 13.7	7.41
	15	.153	.6578	.0327	6.86	5 26.2	.2811	16 9.6	7.35
	16	.159	.6570	.0340	6.88	5 24.9	.2817	16 5.5	7.29
	17	.165	.6562	.0353	6.89	5 23.7	.2822	16 1.4	7.22
	18	.171	.6554	.0366	6.91	5 22.4	.2828	15 57.3	7.16
	19	.177	.6546	.0379	6.93	5 21.1	.2833	15 53.3	7.09
	20	.183	.6537	.0393	6.94	5 19.9	.2839	15 49.2	7.02
	21	+0.190	−0.6528	+0.0407	6.96	5 18.6	1.2845	15 45.2	−6.95
	22	.196	.6519	.0421	6.98	5 17.3	.2851	15 41.1	6.88
	23	.203	.6509	.0435	7.00	5 16.0	.2857	15 37.1	6.80
	24	.209	.6499	.0450	7.02	5 14.6	.2863	15 33.1	6.72
	25	.216	.6489	.0465	7.04	5 13.3	.2869	15 29.1	6.64
	26	.223	.6479	.0480	7.06	5 12.0	.2875	15 25.1	6.56
	27	.229	.6468	.0495	7.08	5 10.7	.2882	15 21.1	6.48
	28	.236	.6457	.0510	7.10	5 9.3	.2888	15 17.2	6.40
	29	.243	.6446	.0525	7.13	5 8.0	.2894	15 13.3	6.31
	30	.251	.6435	.0541	7.15	5 6.6	.2900	15 9.3	6.22
Mai	1	+0.258	−0.6423	+0.0556	7.17	5 5.3	1.2907	15 5.4	−6.13
	2	.265	.6411	.0571	7.20	5 3.9	.2913	15 1.5	6.04
	3	.272	.6399	.0587	7.22	5 2.5	.2919	14 57.6	5.95
	4	.280	.6387	.0602	7.24	5 1.1	.2926	14 53.7	5.85
	5	.287	.6375	.0618	7.27	4 59.7	.2932	14 49.9	5.76
	6	.295	.6362	.0633	7.29	4 58.3	.2938	14 46.0	5.66
	7	.303	.6349	.0649	7.32	4 56.9	.2945	14 42.2	5.56
	8	.310	.6336	.0664	7.35	4 55.5	.2951	14 38.4	5.46
	9	.318	.6323	.0679	7.37	4 54.1	.2957	14 34.6	5.35
	10	.326	.6309	.0694	7.40	4 52.6	.2963	14 30.8	5.25

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	11	+0^s.334	−0.6295	+0.0709	7″.43	$4^h51^m.2$	1.2969	$14^h27^m.0$	−5″.14
	12	.342	.6281	.0724	7.46	4 49.7	.2975	14 23.2	5.04
	13	.351	.6267	.0739	7.48	4 48.3	.2981	14 19.5	4.93
	14	.359	.6253	.0754	7.51	4 46.8	.2987	14 15.7	4.82
	15	.367	.6239	.0768	7.54	4 45.3	.2993	14 12.0	4.71
	16	.376	.6225	.0782	7.57	4 43.9	.2999	14 8.2	4.59
	17	.384	.6211	.0796	7.60	4 42.4	.3004	14 4.5	4.48
	18	.393	.6196	.0810	7.63	4 40.9	.3010	14 0.8	4.37
	19	.402	.6182	.0823	7.66	4 39.4	.3015	13 57.1	4.25
	20	.411	.6167	.0836	7.69	4 37.9	.3021	13 53.5	4.13
	21	+0.419	−0.6152	+0.0849	7.72	4 36.4	1.3026	13 49.8	−4.01
	22	.428	.6137	.0862	7.75	4 34.9	.3031	13 46.1	3.89
	23	.437	.6122	.0875	7.78	4 33.4	.3036	13 42.5	3.77
	24	.446	.6106	.0887	7.81	4 31.8	.3041	13 38.8	3.65
	25	.456	.6091	.0899	7.84	4 30.3	.3045	13 35.2	3.53
	26	.465	.6075	.0910	7.87	4 28.8	.3050	13 31.6	3.41
	27	.474	.6060	.0921	7.90	4 27.3	.3054	13 28.0	3.28
	28	.483	.6044	.0932	7.93	4 25.8	.3059	13 24.4	3.16
	29	.493	.6029	.0943	7.96	4 24.2	.3063	13 20.8	3.03
	30	.502	.6013	.0953	7.99	4 22.7	.3067	13 17.2	2.90
	31	+0.512	−0.5998	+0.0963	8.02	4 21.2	1.3071	13 13.6	−2.78
Juni	1	.521	.5982	.0972	8.06	4 19.6	.3074	13 10.0	2.65
	2	.531	.5966	.0981	8.09	4 18.1	.3078	13 6.4	2.52
	3	.540	.5950	.0989	8.12	4 16.5	.3081	13 2.9	2.39
	4	.550	.5935	.0997	8.15	4 15.0	.3085	12 59.3	2.26
	5	.560	.5919	.1005	8.18	4 13.4	.3088	12 55.8	2.13
	6	.570	.5903	.1012	8.22	4 11.9	.3090	12 52.2	2.00
	7	.580	.5887	.1019	8.25	4 10.3	.3093	12 48.7	1.86
	8	.590	.5872	.1025	8.28	4 8.8	.3095	12 45.1	1.73
	9	.599	.5856	.1031	8.31	4 7.2	.3098	12 41.6	1.60
	10	+0.609	−0.5840	+0.1036	8.34	4 5.6	1.3100	12 38.1	−1.47
	11	.619	.5824	.1041	8.37	4 4.1	.3102	12 34.6	1.33
	12	.629	.5809	.1046	8.41	4 2.5	.3104	12 31.0	1.20
	13	.640	.5793	.1050	8.44	4 1.0	.3105	12 27.5	1.06
	14	.650	.5777	.1053	8.47	3 59.4	.3107	12 24.0	0.93
	15	.660	.5761	.1056	8.50	3 57.8	.3108	12 20.5	0.79
	16	.670	.5745	.1059	8.53	3 56.3	.3109	12 17.0	0.66
	17	.680	.5730	.1061	8.56	3 54.7	.3110	12 13.5	0.52
	18	.690	.5714	.1063	8.59	3 53.2	.3110	12 10.0	0.39
	19	.700	.5699	.1064	8.62	3 51.6	.3111	12 6.5	0.25
	20	+0.710	−0.5683	+0.1065	8.66	3 50.1	1.3111	12 3.0	−0.12
	21	.720	.5668	.1065	8.69	3 48.5	.3111	11 59.5	+0.02
	22	.731	.5652	.1065	8.72	3 46.9	.3111	11 56.0	0.15
	23	.741	.5637	.1064	8.75	3 45.4	.3111	11 52.5	0.29
	24	.751	.5622	.1063	8.78	3 43.8	.3110	11 49.0	0.43
	25	.761	.5607	.1061	8.81	3 42.3	.3110	11 45.5	0.56
	26	.771	.5592	.1059	8.84	3 40.8	.3109	11 42.0	0.70
	27	.781	.5577	.1056	8.87	3 39.2	.3108	11 38.5	0.83
	28	.791	.5562	.1053	8.90	3 37.7	.3106	11 35.0	0.97
	29	.801	.5547	.1049	8.93	3 36.2	.3105	11 31.5	1.10

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	30	+0.811	−0.5532	+0.1045	8.″96	$3^h34^m.6$	1.3103	$11^h28^m.0$	+1.″24
Juli	1	.821	.5517	.1040	8.99	3 33.1	.3101	11 24.5	1.37
	2	.831	.5502	.1035	9.02	3 31.6	.3099	11 20.9	1.50
	3	.841	.5488	.1029	9.05	3 30.1	.3097	11 17.4	1.64
	4	.851	.5473	.1023	9.08	3 28.6	.3095	11 13.9	1.77
	5	.861	.5459	.1017	9.10	3 27.1	.3092	11 10.4	1.90
	6	.871	.5445	.1010	9.13	3 25.6	.3090	11 6.8	2.03
	7	.881	.5431	.1003	9.16	3 24.1	.3087	11 3.3	2.16
	8	.890	.5417	.0995	9.19	3 22.6	.3084	10 59.8	2.29
	9	.900	.5403	.0987	9.22	3 21.1	.3081	10 56.2	2.42
	10	+0.910	−0.5389	+0.0979	9.25	3 19.7	1.3077	10 52.7	+2.55
	11	.919	.5376	.0970	9.27	3 18.2	.3074	10 49.1	2.68
	12	.929	.5362	.0961	9.30	3 16.8	.3070	10 45.5	2.81
	13	.938	.5348	.0951	9.33	3 15.3	.3066	10 42.0	2.93
	14	.948	.5335	.0941	9.35	3 13.9	.3062	10 38.4	3.06
	15	.957	.5322	.0930	9.38	3 12.5	.3058	10 34.8	3.19
	16	.967	.5309	.0919	9.41	3 11.0	.3054	10 31.2	3.31
	17	.976	.5296	.0907	9.43	3 9.6	.3049	10 27.6	3.43
	18	.985	.5283	.0896	9.46	3 8.2	.3044	10 24.0	3.56
	19	0.994	.5270	.0884	9.48	3 6.8	.3040	10 20.4	3.68
	20	+1.003	−0.5257	+0.0872	9.51	3 5.4	1.3035	10 16.8	+3.80
	21	.012	.5245	.0860	9.54	3 4.1	.3030	10 13.1	3.92
	22	.021	.5232	.0847	9.56	3 2.7	.3025	10 9.5	4.04
	23	.030	.5220	.0834	9.59	3 1.4	.3020	10 5.8	4.16
	24	.039	.5207	.0821	9.61	3 0.0	.3014	10 2.2	4.27
	25	.048	.5195	.0807	9.63	2 58.7	.3009	9 58.5	4.39
	26	.056	.5183	.0794	9.66	2 57.3	.3003	9 54.8	4.50
	27	.065	.5171	.0780	9.68	2 56.0	.2998	9 51.1	4.61
	28	.073	.5159	.0766	9.71	2 54.7	.2992	9 47.4	4.72
	29	.082	.5148	.0752	9.73	2 53.4	.2986	9 43.7	4.83
	30	+1.090	−0.5136	+0.0738	9.75	2 52.1	1.2981	9 40.0	+4.94
	31	.098	.5125	.0723	9.78	2 50.8	.2975	9 36.3	5.05
August	1	.106	.5113	.0708	9.80	2 49.6	.2969	9 32.5	5.16
	2	.114	.5102	.0693	9.82	2 48.3	.2963	9 28.8	5.26
	3	.122	.5091	.0678	9.84	2 47.1	.2957	9 25.0	5.36
	4	.130	.5080	.0663	9.87	2 45.9	.2950	9 21.2	5.47
	5	.138	.5069	.0648	9.89	2 44.7	.2944	9 17.4	5.57
	6	.146	.5058	.0633	9.91	2 43.5	.2938	9 13.6	5.67
	7	.154	.5047	.0617	9.93	2 42.3	.2932	9 9.8	5.76
	8	.161	.5036	.0602	9.95	2 41.1	.2926	9 6.0	5.86
	9	+1.169	−0.5025	+0.0586	9.98	2 40.0	1.2919	9 2.1	+5.95
	10	.176	.5014	.0571	10.00	2 38.8	.2913	8 58.3	6.04
	11	.183	.5003	.0556	10.02	2 37.7	.2907	8 54.4	6.13
	12	.190	.4993	.0541	10.04	2 36.6	.2901	8 50.5	6.22
	13	.198	.4982	.0526	10.06	2 35.5	.2894	8 46.7	6.31
	14	.205	.4972	.0511	10.08	2 34.4	.2888	8 42.8	6.40
	15	.212	.4962	.0496	10.10	2 33.3	.2882	8 38.9	6.48
	16	.219	.4952	.0481	10.12	2 32.3	.2876	8 34.9	6.56
	17	.225	.4941	.0466	10.14	2 31.2	.2869	8 31.0	6.64
	18	.232	.4931	.0452	10.16	2 30.2	.2863	8 27.0	6.72

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	19	$+1^s.239$	−0.4921	+0.0437	10″.18	$2^h 29^m.2$	1.2857	$8^h 23^m.1$	+6″.80
	20	.245	.4911	.0423	10.20	2 28.2	.2851	8 19.1	6.87
	21	.252	.4901	.0408	10.22	2 27.2	.2846	8 15.1	6.95
	22	.258	.4891	.0394	10.24	2 26.2	.2840	8 11.1	7.02
	23	.265	.4881	.0380	10.26	2 25.3	.2834	8 7.1	7.09
	24	.271	.4871	.0367	10.28	2 24.4	.2828	8 3.0	7.15
	25	.277	.4861	.0354	10.30	2 23.4	.2823	7 59.0	7.22
	26	.283	.4851	.0341	10.32	2 22.5	.2817	7 54.9	7.28
	27	.289	.4841	.0328	10.34	2 21.6	.2812	7 50.9	7.34
	28	.295	.4831	.0316	10.36	2 20.8	.2807	7 46.8	7.40
	29	+1.301	−0.4821	+0.0304	10.38	2 19.9	1.2802	7 42.7	+7.46
	30	.307	.4811	.0293	10.40	2 19.1	.2797	7 38.6	7.51
	31	.313	.4801	.0282	10.42	2 18.3	.2792	7 34.5	7.56
Septbr.	1	.318	.4791	.0271	10.44	2 17.5	.2788	7 30.4	7.61
	2	.324	.4781	.0261	10.46	2 16.7	.2783	7 26.2	7.66
	3	.330	.4771	.0251	10.49	2 15.9	.2779	7 22.1	7.71
	4	.335	.4760	.0241	10.51	2 15.1	.2775	7 17.9	7.75
	5	.341	.4750	.0232	10.53	2 14.4	.2771	7 13.8	7.79
	6	.346	.4740	.0223	10.55	2 13.6	.2767	7 9.6	7.83
	7	.352	.4730	.0215	10.57	2 12.9	.2764	7 5.4	7.87
	8	+1.357	−0.4720	+0.0207	10.59	2 12.3	1.2761	7 1.2	+7.90
	9	.363	.4709	.0200	10.61	2 11.6	.2757	6 57.0	7.94
	10	.368	.4698	.0193	10.63	2 10.9	.2754	6 52.8	7.97
	11	.373	.4687	.0186	10.65	2 10.3	.2752	6 48.6	7.99
	12	.378	.4676	.0180	10.68	2 9.6	.2749	6 44.4	8.02
	13	.383	.4665	.0174	10.70	2 9.0	.2747	6 40.2	8.04
	14	.389	.4654	.0169	10.72	2 8.4	.2745	6 35.9	8.06
	15	.394	.4642	.0165	10.74	2 7.8	.2743	6 31.7	8.08
	16	.399	.4631	.0162	10.77	2 7.3	.2741	6 27.5	8.10
	17	.404	.4619	.0159	10.79	2 6.7	.2740	6 23.2	8.11
	18	+1.409	−0.4608	+0.0156	10.81	2 6.2	1.2739	6 19.0	+8.12
	19	.414	.4596	.0154	10.84	2 5.6	.2738	6 14.7	8.13
	20	.419	.4584	.0152	10.86	2 5.1	.2737	6 10.4	8.14
	21	.424	.4572	.0151	10.88	2 4.6	.2737	6 6.2	8.15
	22	.429	.4559	.0150	10.91	2 4.1	.2736	6 1.9	8.15
	23	.435	.4547	.0150	10.93	2 3.7	.2736	5 57.6	8.15
	24	.440	.4534	.0151	10.96	2 3.2	.2737	5 53.4	8.15
	25	.445	.4521	.0152	10.99	2 2.8	.2737	5 49.1	8.14
	26	.450	.4508	.0154	11.01	2 2.3	.2738	5 44.8	8.13
	27	.455	.4495	.0156	11.04	2 1.9	.2739	5 40.5	8.12
	28	+1.460	−0.4481	+0.0159	11.07	2 1.5	1.2740	5 36.2	+8.11
	29	.465	.4467	.0162	11.09	2 1.1	.2741	5 31.9	8.10
	30	.470	.4453	.0166	11.12	2 0.7	.2743	5 27.7	8.08
Oktbr.	1	.476	.4439	.0170	11.15	2 0.3	.2745	5 23.4	8.06
	2	.481	.4424	.0175	11.18	2 0.0	.2747	5 19.1	8.04
	3	.486	.4409	.0181	11.21	1 59.6	.2750	5 14.8	8.02
	4	.491	.4394	.0187	11.24	1 59.3	.2752	5 10.6	7.99
	5	.497	.4379	.0194	11.27	1 59.0	.2755	5 6.3	7.96
	6	.502	.4363	.0201	11.30	1 58.6	.2758	5 2.0	7.93
	7	.507	.4347	.0209	11.33	1 58.3	.2761	4 57.8	7.89

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	8	$+1^s.513$	−0.4331	+0.0217	$11''.37$	$1^h58^m.0$	1.2765	$4^h53^m.5$	$+7''.86$
	9	.518	.4315	.0225	11.40	1 57.7	.2769	4 49.3	7.82
	10	.524	.4298	.0234	11.43	1 57.5	.2772	4 45.0	7.78
	11	.530	.4281	.0244	11.47	1 57.2	.2776	4 40.8	7.74
	12	.535	.4263	.0254	11.50	1 56.9	.2781	4 36.5	7.69
	13	.541	.4245	.0265	11.54	1 56.7	.2785	4 32.3	7.64
	14	.547	.4227	.0276	11.57	1 56.4	.2790	4 28.1	7.59
	15	.553	.4209	.0287	11.61	1 56.1	.2794	4 23.8	7.54
	16	.559	.4191	.0299	11.65	1 55.9	.2799	4 19.6	7.49
	17	.565	.4172	.0311	11.69	1 55.7	.2804	4 15.4	7.43
	18	+1.571	−0.4153	+0.0323	11.72	1 55.4	1.2810	4 11.2	+7.37
	19	.577	.4133	.0336	11.76	1 55.2	.2815	4 7.0	7.31
	20	.583	.4113	.0349	11.80	1 54.9	.2821	4 2.9	7.25
	21	.589	.4093	.0362	11.84	1 54.7	.2826	3 58.7	7.18
	22	.596	.4072	.0376	11.89	1 54.5	.2832	3 54.5	7.11
	23	.602	.4051	.0390	11.93	1 54.3	.2838	3 50.4	7.04
	24	.609	.4030	.0404	11.97	1 54.1	.2844	3 46.2	6.97
	25	.615	.4008	.0418	12.01	1 53.8	.2850	3 42.1	6.89
	26	.622	.3986	.0433	12.06	1 53.6	.2856	3 38.0	6.82
	27	.629	.3964	.0448	12.10	1 53.4	.2862	3 33.8	6.74
	28	+1.636	−0.3942	+0.0463	12.15	1 53.2	1.2868	3 29.7	+6.66
	29	.643	.3919	.0479	12.19	1 53.0	.2875	3 25.6	6.58
	30	.650	.3896	.0494	12.24	1 52.8	.2881	3 21.5	6.49
	31	.657	.3872	.0510	12.29	1 52.6	.2888	3 17.5	6.40
Novbr.	1	.664	.3848	.0525	12.34	1 52.3	.2894	3 13.4	6.31
	2	.672	.3824	.0541	12.38	1 52.1	.2901	3 9.3	6.22
	3	.679	.3800	.0557	12.43	1 51.9	.2907	3 5.3	6.13
	4	.687	.3775	.0573	12.48	1 51.7	.2914	3 1.3	6.04
	5	.694	.3750	.0590	12.53	1 51.4	.2920	2 57.2	5.94
	6	.702	.3725	.0606	12.58	1 51.2	.2927	2 53.2	5.84
	7	+1.710	−0.3700	+0.0622	12.63	1 51.0	1.2934	2 49.2	+5.74
	8	.718	.3674	.0638	12.69	1 50.8	.2940	2 45.2	5.64
	9	.726	.3648	.0654	12.74	1 50.5	.2947	2 41.2	5.53
	10	.734	.3621	.0669	12.79	1 50.3	.2953	2 37.2	5.42
	11	.742	.3594	.0685	12.84	1 50.0	.2959	2 33.3	5.32
	12	.751	.3567	.0700	12.90	1 49.8	.2966	2 29.3	5.21
	13	.759	.3540	.0716	12.95	1 49.5	.2972	2 25.4	5.10
	14	.768	.3513	.0731	13.01	1 49.3	.2978	2 21.4	4.98
	15	.776	.3485	.0747	13.06	1 49.0	.2984	2 17.5	4.87
	16	.785	.3457	.0762	13.12	1 48.7	.2990	2 13.6	4.76
	17	+1.794	−0.3429	+0.0777	13.18	1 48.4	1.2996	2 9.7	+4.64
	18	.803	.3400	.0791	13.23	1 48.2	.3002	2 5.8	4.52
	19	.812	.3371	.0806	13.29	1 47.9	.3008	2 1.9	4.40
	20	.821	3342	.0820	13.35	1 47.6	.3014	1 58.0	4.28
	21	.830	.3313	.0834	13.41	1 47.3	.3020	1 54.1	4.15
	22	.840	.3284	.0848	13.47	1 47.0	.3025	1 50.3	4.03
	23	.849	.3255	.0862	13.53	1 46.6	.3031	1 46.4	3.90
	24	.858	.3225	.0875	13.59	1 46.3	.3036	1 42.6	3.78
	25	.868	.3195	.0888	13.65	1 46.0	.3041	1 38.7	3.65
	26	.878	.3165	.0900	13.71	1 45.7	.3046	1 34.9	3.52

1850

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	27	$+1^s.887$	−0.3135	+0.0912	13″.77	$1^h45^m.3$	1.3051	$1^h31^m.0$	+3″.39
	28	.897	.3105	.0924	13.83	1 45.0	.3055	1 27.2	3.26
	29	.907	.3075	.0935	13.89	1 44.6	.3060	1 23.4	3.12
	30	.917	.3044	.0946	13.95	1 44.2	.3064	1 19.6	2.99
Dezbr.	1	.927	.3013	.0956	14.01	1 43.8	.3068	1 15.8	2.86
	2	.937	.2982	.0966	14.07	1 43.4	.3072	1 12.0	2.72
	3	.947	.2952	.0976	14.13	1 43.1	.3076	1 8.2	2.58
	4	.957	.2921	.0986	14.19	1 42.7	.3080	1 4.4	2.45
	5	.968	.2890	.0995	14.26	1 42.3	.3083	1 0.7	2.31
	6	.978	.2859	.1003	14.32	1 41.9	.3087	0 56.9	2.17
	7	+1.988	−0.2828	+0.1011	14.38	1 41.4	1.3090	0 53.1	+2.03
	8	1.999	.2797	.1018	14.44	1 41.0	.3093	0 49.4	1.89
	9	2.009	.2766	.1025	14.51	1 40.6	.3095	0 45.6	1.75
	10	.019	.2735	.1031	14.57	1 40.1	.3098	0 41.8	1.61
	11	.030	.2704	.1036	14.63	1 39.7	.3100	0 38.1	1.47
	12	.040	.2672	.1041	14.69	1 39.2	.3102	0 34.3	1.32
	13	.051	.2640	.1046	14.76	1 38.7	.3104	0 30.6	1.18
	14	.062	.2609	.1050	14.82	1 38.3	.3105	0 26.8	1.04
	15	.072	.2578	.1054	14.88	1 37.8	.3107	0 23.1	0.89
	16	.083	.2547	.1057	14.94	1 37.3	.3108	0 19.4	0.75
	17	+2.094	−0.2517	+0.1060	15.01	1 36.8	1.3109	0 15.6	+0.61
	18	.105	.2486	.1062	15.07	1 36.3	.3110	0 11.9	0.46
	19	.115	.2454	.1063	15.13	1 35.8	.3111	0 8.2	0.32
	20	.126	.2423	.1064	15.19	1 35.3	.3111	0 4.4	0.17
	21	.137	.2392	.1065	15.25	1 34.8	.3111	0 0.7	+0.03
	22	.148	.2362	.1065	15.31	1 34.3	.3111	23 56.9	−0.12
	23	.158	.2331	.1064	15.38	1 33.8	.3111	23 53.2	0.26
	24	.169	.2301	.1063	15.44	1 33.2	.3110	23 49.5	0.41
	25	.180	.2271	.1061	15.50	1 32.7	.3110	23 45.7	0.55
	26	.191	.2241	.1058	15.56	1 32.2	.3109	23 42.0	0.70
	27	+2.201	−0.2211	+0.1055	15.62	1 31.6	1.3108	23 38.2	−0.84
	28	.212	.2182	.1051	15.68	1 31.1	.3106	23 34.5	0.99
	29	.223	.2152	.1048	15.74	1 30.5	.3105	23 30.7	1.13
	30	.233	.2123	.1044	15.80	1 29.9	.3103	23 27.0	1.27
	31	.244	.2093	.1039	15.85	1 29.4	.3102	23 23.2	1.42

1851

Januar	1	$-0^s.817$	−0.5997	+0.1033	8″.03	$8^h45^m.9$	1.3099	$23^h19^m.4$	−1″.56
	2	.806	.6025	.1027	7.97	8 44.7	.3096	23 15.7	1.70
	3	.796	.6053	.1020	7.92	8 43.5	.3094	23 11.9	1.84
	4	.785	.6081	.1013	7.86	8 42.3	.3091	23 8.1	1.98
	5	.775	.6110	.1005	7.80	8 41.1	.3088	23 4.4	2.12
	6	.765	.6138	.0997	7.75	8 39.9	.3085	23 0.6	2.26
	7	.754	.6166	.0989	7.69	8 38.7	.3081	22 56.8	2.40
	8	.744	.6194	.0980	7.63	8 37.5	.3078	22 53.0	2.54
	9	.734	.6223	.0970	7.57	8 36.3	.3074	22 49.2	2.68
	10	.724	.6251	.0960	7.52	8 35.1	.3070	22 45.4	2.81

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	11	$-0^s.714$	−0.6279	+0.0950	7″.46	$8^h34^m.0$	1.3066	$22^h41^m.6$	−2″.95
	12	.704	.6307	.0939	7.40	8 32.8	.3061	22 37.7	3.08
	13	.694	.6336	.0928	7.35	8 31.6	.3057	22 33.9	3.22
	14	.683	.6364	.0916	7.29	8 30.4	.3052	22 30.1	3.35
	15	.674	.6392	.0904	7.24	8 29.3	.3047	22 26.2	3.48
	16	.664	.6420	.0891	7.18	8 28.1	.3042	22 22.4	3.61
	17	.655	.6448	.0878	7.12	8 26.9	.3037	22 18.5	3.74
	18	.645	.6476	.0865	7.07	8 25.7	.3032	22 14.7	3.87
	19	.636	.6503	.0852	7.01	8 24.6	.3027	22 10.8	4.00
	20	.626	.6531	.0838	6.96	8 23.4	.3021	22 6.9	4.12
	21	−0.617	−0.6559	+0.0824	6.90	8 22.2	1.3016	22 3.0	−4.24
	22	.608	.6587	.0809	6.84	8 21.1	.3010	21 59.1	4.37
	23	.599	.6614	.0795	6.79	8 19.9	.3004	21 55.2	4.49
	24	.590	.6641	.0780	6.74	8 18.8	.2998	21 51.2	4.61
	25	.581	.6668	.0765	6.68	8 17.7	.2992	21 47.3	4.73
	26	.572	.6694	.0750	6.63	8 16.5	.2986	21 43.4	4.84
	27	.563	.6721	.0735	6.57	8 15.4	.2980	21 39.4	4.96
	28	.555	.6747	.0720	6.52	8 14.3	.2973	21 35.5	5.07
	29	.546	.6774	.0704	6.47	8 13.1	.2967	21 31.5	5.19
	30	.537	.6800	.0688	6.42	8 12.0	.2961	21 27.5	5.30
	31	−0.529	−0.6826	+0.0672	6.36	8 10.8	1.2954	21 23.5	−5.41
Februar	1	.521	.6852	.0656	6.31	8 9.7	.2947	21 19.5	5.51
	2	.512	.6877	.0639	6.26	8 8.6	.2941	21 15.5	5.62
	3	.504	.6902	.0623	6.21	8 7.5	.2934	21 11.5	5.72
	4	.496	.6927	.0607	6.16	8 6.3	.2928	21 7.4	5.82
	5	.489	.6952	.0591	6.11	8 5.2	.2921	21 3.4	5.92
	6	.481	.6977	.0575	6.06	8 4.1	.2915	20 59.3	6.02
	7	.473	.7001	.0559	6.01	8 3.0	.2908	20 55.2	6.12
	8	.466	.7025	.0543	5.97	8 1.9	.2901	20 51.1	6.21
	9	.458	.7049	.0527	5.92	8 0.8	.2895	20 47.0	6.30
	10	−0.451	−0.7072	+0.0511	5.87	7 59.7	1.2888	20 42.9	−6.39
	11	.444	.7095	.0496	5.82	7 58.6	.2882	20 38.8	6.48
	12	.436	.7118	.0480	5.78	7 57.5	.2875	20 34.7	6.57
	13	.429	.7140	.0465	5.73	7 56.4	.2869	20 30.6	6.65
	14	.422	.7162	.0450	5.69	7 55.3	.2862	20 26.4	6.73
	15	.415	.7184	.0435	5.65	7 54.1	.2856	20 22.2	6.81
	16	.408	.7206	.0420	5.60	7 52.0	.2850	20 18.1	6.89
	17	.402	.7227	.0405	5.56	7 51.9	.2844	20 13.9	6.97
	18	.395	.7248	.0391	5.52	7 50.8	.2838	20 9.7	7.04
	19	.389	.7269	.0377	5.48	7 49.6	.2832	20 5.5	7.11
	20	−0.382	−0.7289	+0.0363	5.44	7 48.5	1.2826	20 1.3	−7.18
	21	.376	.7309	.0349	5.40	7 47.4	.2820	19 57.1	7.25
	22	.369	.7329	.0335	5.36	7 46.2	.2815	19 52.9	7.31
	23	.363	.7348	.0322	5.32	7 45.1	.2809	19 48.6	7.37
	24	.357	.7367	.0309	5.28	7 43.9	.2804	19 44.4	7.43
	25	.351	.7385	.0297	5.24	7 42.8	.2799	19 40.1	7.49
	26	.345	.7403	.0285	5.21	7 41.6	.2794	19 35.9	7.55
	27	.339	.7420	.0274	5.17	7 40.5	.2789	19 31.6	7.60
	28	.333	.7437	.0263	5.14	7 39.3	.2784	19 27.3	7.65
März	1	.327	.7454	.0253	5.10	7 38.1	.2780	19 23.0	7.70

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	2	$-0^s.321$	−0.7471	+0.0243	5″.07	$7^h36^m.9$	1.2776	$19^h18^m.8$	−7″.74
	3	.315	.7487	.0233	5.04	7 35.7	.2772	19 14.5	7.79
	4	.310	.7503	.0224	5.01	7 34.4	.2768	19 10.2	7.83
	5	.304	.7518	.0215	4.98	7 33.2	.2764	19 5.9	7.86
	6	.299	.7533	.0207	4.95	7 32.0	.2761	19 1.6	7.90
	7	.293	.7547	.0199	4.92	7 30.7	.2758	18 57.2	7.93
	8	.288	.7561	.0192	4.89	7 29.5	.2755	18 52.9	7.96
	9	.282	.7575	.0186	4.86	7 28.2	.2752	18 48.6	7.99
	10	.277	.7588	.0180	4.84	7 26.9	.2749	18 44.3	8.02
	11	.271	.7601	.0174	4.81	7 25.6	.2747	18 40.0	8.04
	12	−0.266	−0.7614	+0.0169	4.78	7 24.2	1.2745	18 35.6	−8.07
	13	.261	.7626	.0165	4.76	7 22.9	.2743	18 31.3	8.09
	14	.255	.7638	.0161	4.74	7 21.6	.2741	18 27.0	8.10
	15	.250	.7649	.0158	4.71	7 20.2	.2740	18 22.6	8.12
	16	.245	.7660	.0155	4.69	7 18.8	.2738	18 18.3	8.13
	17	.240	.7670	.0153	4.67	7 17.4	.2738	18 14.0	8.14
	18	.234	.7680	.0151	4.65	7 15.9	.2737	18 9.6	8.14
	19	.229	.7689	.0150	4.63	7 14.5	.2737	18 5.3	8.15
	20	.224	.7698	.0150	4.61	7 13.0	.2736	18 1.0	8.15
	21	.219	.7707	.0150	4.60	7 11.5	.2736	17 56.7	8.15
	22	−0.213	−0.7715	+0.0151	4.58	7 10.0	1.2737	17 52.3	−8.14
	23	.208	.7723	.0152	4.57	7 8.4	.2737	17 48.0	8.14
	24	.203	.7730	.0154	4.55	7 6.9	.2738	17 43.7	8.13
	25	.198	.7737	.0157	4.54	7 5.3	.2739	17 39.4	8.12
	26	.192	.7744	.0160	4.52	7 3.7	.2740	17 35.1	8.11
	27	.187	.7750	.0163	4.51	7 2.0	.2742	17 30.8	8.09
	28	.182	.7756	.0167	4.50	7 0.3	.2744	17 26.5	8.08
	29	.177	.7762	.0172	4.49	6 58.6	.2746	17 22.2	8.06
	30	.171	.7767	.0177	4.48	6 56.9	.2748	17 17.9	8.03
	31	.166	.7772	.0182	4.47	6 55.2	.2750	17 13.6	8.01
April	1	−0.160	−0.7776	+0.0188	4.46	6 53.4	1.2753	17 9.4	−7.98
	2	.155	.7780	.0195	4.45	6 51.6	.2756	17 5.1	7.95
	3	.149	.7784	.0202	4.44	6 49.8	.2759	17 0.9	7.92
	4	.144	.7787	.0210	4.44	6 48.0	.2762	16 56.6	7.89
	5	.138	.7790	.0218	4.43	6 46.1	.2766	16 52.4	7.85
	6	.133	.7792	.0227	4.43	6 44.2	.2769	16 48.2	7.81
	7	.127	.7794	.0236	4.42	6 42.3	.2773	16 44.0	7.77
	8	.121	.7795	.0246	4.42	6 40.4	.2777	16 39.7	7.73
	9	.115	.7796	.0256	4.42	6 38.4	.2782	16 35.6	7.68
	10	.110	.7797	.0267	4.42	6 36.4	.2786	16 31.4	7.63
	11	−0.104	−0.7797	+0.0278	4.42	6 34.4	1.2791	16 27.2	−7.58
	12	.098	.7797	.0289	4.42	6 32.4	.2795	16 23.0	7.53
	13	.092	.7797	.0300	4.42	6 30.3	.2800	16 18.9	7.48
	14	.086	.7797	.0312	4.42	6 28.2	.2805	16 14.7	7.42
	15	.080	.7796	.0324	4.42	6 26.1	.2810	16 10.6	7.36
	16	.073	.7794	.0336	4.42	6 24.0	.2815	16 6.5	7.30
	17	.067	.7792	.0349	4.43	6 21.9	.2821	16 2.4	7.24
	18	.061	.7790	.0362	4.43	6 19.7	.2826	15 58.3	7.18
	19	.054	.7788	.0376	4.44	6 17.5	.2832	15 54.2	7.11
	20	.048	.7785	.0390	4.44	6 15.2	.2838	15 50.2	7.04

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	21	$-0^s.041$	−0.7782	+0.0404	4″.45	$6^h12^m.9$	1.2843	$15^h46^m.1$	−6″.97
	22	.034	.7778	.0418	4.45	6 10.7	.2849	15 42.1	6.90
	23	.028	.7774	.0432	4.46	6 8.4	.2855	15 38.1	6.82
	24	.021	.7770	.0447	4.47	6 6.0	.2862	15 34.1	6.74
	25	.014	.7766	.0462	4.48	6 3.7	.2868	15 30.1	6.66
	26	−0.007	.7761	.0477	4.49	6 1.4	.2874	15 26.1	6.58
	27	0.000	.7756	.0492	4.50	5 59.0	.2880	15 22.1	6.50
	28	+0.007	.7751	.0507	4.51	5 56.6	.2886	15 18.1	6.42
	29	.015	.7745	.0522	4.52	5 54.2	.2893	15 14.2	6.33
	30	.022	.7739	.0537	4.53	5 51.8	.2899	15 10.3	6.24
Mai	1	+0.029	−0.7733	+0.0553	4.55	5 49.4	1.2905	15 6.3	−6.15
	2	.037	.7726	.0568	4.56	5 47.0	.2912	15 2.4	6.06
	3	.044	.7719	.0584	4.57	5 44.5	.2918	14 58.6	5.97
	4	.052	.7712	.0599	4.59	5 42.0	.2924	14 54.7	5.88
	5	.060	.7705	.0615	4.60	5 39.5	.2931	14 50.8	5.78
	6	.068	.7697	.0630	4.62	5 37.0	.2937	14 47.0	5.68
	7	.076	.7689	.0645	4.64	5 34.5	.2943	14 43.1	5.58
	8	.084	.7680	.0660	4.65	5 32.0	.2949	14 39.3	5.48
	9	.092	.7671	.0676	4.67	5 29.5	.2956	14 35.5	5.38
	10	.100	.7662	.0691	4.69	5 27.0	.2962	14 31.7	5.28
	11	+0.108	−0.7653	+0.0706	4.71	5 24.5	1.2968	14 27.9	−5.17
	12	.117	.7643	.0721	4.73	5 22.0	.2974	14 24.1	5.06
	13	.125	.7633	.0736	4.75	5 19.4	.2980	14 20.4	4.95
	14	.134	.7623	.0750	4.77	5 16.8	.2986	14 16.6	4.84
	15	.142	.7613	.0764	4.79	5 14.3	.2992	14 12.9	4.73
	16	.151	.7602	.0778	4.81	5 11.7	.2997	14 9.1	4.62
	17	.160	.7591	.0792	4.83	5 9.1	.3003	14 5.4	4.51
	18	.169	.7580	.0806	4.85	5 6.6	.3008	14 1.7	4.40
	19	.178	.7569	.0820	4.87	5 4.0	.3014	13 58.0	4.28
	20	.187	.7557	.0833	4.90	5 1.4	.3019	13 54.3	4.16
	21	+0.196	−0.7545	+0.0846	4.92	4 58.8	1.3025	13 50.7	−4.04
	22	.205	.7533	.0859	4.94	4 56.2	.3030	13 47.0	3.92
	23	.214	.7521	.0872	4.97	4 53.6	.3035	13 43.3	3.80
	24	.224	.7509	.0884	4.99	4 51.0	.3040	13 39.7	3.68
	25	.233	.7496	.0896	5.02	4 48.5	.3044	13 36.1	3.56
	26	.242	.7483	.0907	5.04	4 45.9	.3049	13 32.5	3.44
	27	.252	.7470	.0918	5.07	4 43.4	.3053	13 28.8	3.31
	28	.262	.7457	.0929	5.10	4 40.8	.3058	13 25.2	3.19
	29	.271	.7444	.0940	5.12	4 38.2	.3062	13 21.6	3.06
	30	.281	.7431	.0950	5.15	4 35.7	.3066	13 18.0	2.94
	31	+0.291	−0.7417	+0.0960	5.18	4 33.1	1.3070	13 14.4	−2.81
Juni	1	.300	.7403	.0969	5.21	4 30.6	.3074	13 10.9	2.68
	2	.310	.7389	.0978	5.24	4 28.0	.3077	13 7.3	2.55
	3	.320	.7374	.0987	5.26	4 25.5	.3081	13 3.7	2.42
	4	.330	.7360	.0995	5.29	4 23.0	.3084	13 0.2	2.29
	5	.340	.7345	.1003	5.32	4 20.5	.3087	12 56.6	2.16
	6	.350	.7331	.1010	5.35	4 17.9	.3090	12 53.1	2.03
	7	.360	.7316	.1017	5.38	4 15.4	.3092	12 49.5	1.90
	8	.371	.7301	.1023	5.41	4 12.9	.3095	12 46.0	1.76
	9	.381	.7286	.1029	5.44	4 10.4	.3097	12 42.5	1.63

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	10	+0.391	−0.7271	+0.1034	5.″47	4^h 7.^{m}9	1.3100	12^h38.^{m}9	−1.″50
	11	.401	.7256	.1039	5.50	4 5.4	.3102	12 35.4	1.36
	12	.412	.7241	.1044	5.53	4 2.9	.3103	12 31.9	1.23
	13	.422	.7225	.1049	5.56	4 0.5	.3105	12 28.4	1.10
	14	.432	.7210	.1053	5.60	3 58.0	.3106	12 24.9	0.96
	15	.442	.7194	.1056	5.63	3 55.5	.3108	12 21.3	0.83
	16	.453	.7178	.1059	5.66	3 53.1	.3109	12 17.8	0.69
	17	.463	.7162	.1061	5.69	3 50.7	.3109	12 14.3	0.56
	18	.474	.7146	.1063	5.72	3 48.3	.3110	12 10.8	0.42
	19	.484	.7130	.1064	5.75	3 45.9	.3111	12 7.3	0.28
	20	+0.495	−0.7114	+0.1065	5.79	3 43.5	1.3111	12 3.8	−0.15
	21	.505	.7098	.1065	5.82	3 41.2	.3111	12 0.3	−0.01
	22	.515	.7082	.1065	5.85	3 38.8	.3111	11 56.8	+0.12
	23	.526	.7066	.1064	5.88	3 36.4	.3111	11 53.3	0.26
	24	.536	.7049	.1063	5.92	3 34.1	.3110	11 49.8	0.39
	25	.547	.7033	.1061	5.95	3 31.7	.3110	11 46.3	0.53
	26	.557	.7016	.1059	5.98	3 29.4	.3109	11 42.8	0.66
	27	.567	.7000	.1057	6.02	3 27.1	.3108	11 39.3	0.80
	28	.578	.6983	.1054	6.05	3 24.9	.3107	11 35.8	0.93
	29	.588	.6967	.1050	6.08	3 22.6	.3105	11 32.3	1.07
	30	+0.598	−0.6950	+0.1046	6.11	3 20.3	1.3104	11 28.8	+1.20
Juli	1	.609	.6934	.1041	6.15	3 18.1	.3102	11 25.3	1.34
	2	.619	.6917	.1036	6.18	3 15.9	.3100	11 21.8	1.47
	3	.629	.6901	.1031	6.21	3 13.7	.3098	11 18.3	1.60
	4	.639	.6884	.1025	6.25	3 11.5	.3096	11 14.8	1.74
	5	.650	.6867	.1019	6.28	3 9.3	.3093	11 11.2	1.87
	6	.660	.6850	.1012	6.31	3 7.1	.3090	11 7.7	2.00
	7	.670	.6834	.1005	6.35	3 5.0	.3088	11 4.2	2.13
	8	.680	.6817	.0997	6.38	3 2.9	.3085	11 0.6	2.26
	9	.690	.6801	.0989	6.41	3 0.8	.3081	10 57.1	2.39
	10	+0.700	−0.6784	+0.0981	6.45	2 58.7	1.3078	10 53.5	+2.52
	11	.710	.6768	.0972	6.48	2 56.6	.3075	10 50.0	2.65
	12	.720	.6751	.0963	6.51	2 54.5	.3071	10 46.4	2.78
	13	.729	.6735	.0953	6.55	2 52.4	.3067	10 42.8	2.80
	14	.739	.6719	.0943	6.58	2 50.4	.3063	10 39.3	2.93
	15	.749	.6703	.0932	6.61	2 48.4	.3059	10 35.7	3.16
	16	.758	.6686	.0921	6.64	2 46.4	.3055	10 32.1	3.28
	17	.768	.6670	.0910	6.68	2 44.4	.3050	10 28.5	3.40
	18	.777	.6654	.0899	6.71	2 42.5	.3046	10 24.9	3.53
	19	.787	.6638	.0887	6.74	2 40.6	.3041	10 21.3	3.65
	20	+0.796	−0.6621	+0.0875	6.77	2 38.7	1.3036	10 17.7	+3.77
	21	.806	.6605	.0863	6.81	2 36.8	.3031	10 14.0	3.89
	22	.815	.6589	.0851	6.84	2 34.9	.3026	10 10.4	4.01
	23	.824	.6573	.0838	6.87	2 33.0	.3021	10 6.7	4.13
	24	.833	.6558	.0825	6.90	2 31.2	.3016	10 3.1	4.24
	25	.842	.6542	.0811	6.93	2 29.4	.3010	9 59.4	4.36
	26	.851	.6527	.0797	6.97	2 27.6	.3005	9 55.7	4.47
	27	.860	.6511	.0783	7.00	2 25.8	.2999	9 52.0	4.59
	28	.869	.6495	.0769	7.03	2 24.0	.2994	9 48.3	4.70
	29	.877	.6479	.0755	7.06	2 22.3	.2988	9 44.6	4.81

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	30	$+0^s.886$	−0.6463	+0.0741	7″.09	$2^h20^m.5$	1.2982	$9^h40^m.9$	+4″.92
	31	.894	.6448	.0727	7.12	2 18.8	.2976	9 37.2	5.02
August	1	.903	.6432	.0712	7.15	2 17.1	.2970	9 33.4	5.13
	2	.911	.6417	.0697	7.18	2 15.5	.2964	9 29.7	5.24
	3	.919	.6401	.0682	7.22	2 13.8	.2958	9 25.9	5.34
	4	.928	.6386	.0666	7.25	2 12.2	.2952	9 22.1	5.44
	5	.936	.6371	.0651	7.28	2 10.7	.2946	9 18.4	5.54
	6	.944	.6356	.0636	7.31	2 9.1	.2940	9 14.6	5.64
	7	.952	.6341	.0621	7.34	2 7.5	.2933	9 10.7	5.74
	8	.960	.6326	.0606	7.37	2 6.0	.2927	9 6.9	5.84
	9	+0.967	−0.6311	+0.0590	7.40	2 4.5	1.2921	9 3.1	+5.93
	10	.975	.6296	.0575	7.43	2 3.0	.2915	8 59.2	6.02
	11	.983	.6281	.0560	7.46	2 1.5	.2908	8 55.4	6.11
	12	.990	.6267	.0545	7.49	2 0.0	.2902	8 51.5	6.20
	13	0.998	.6252	.0529	7.51	1 58.6	.2896	8 47.6	6.29
	14	1.005	.6238	.0514	7.54	1 57.2	.2889	8 43.7	6.38
	15	.012	.6223	.0499	7.57	1 55.8	.2883	8 39.8	6.46
	16	.020	.6209	.0484	7.60	1 54.5	.2877	8 35.9	6.54
	17	.027	.6195	.0469	7.63	1 53.1	.2871	8 31.9	6.62
	18	.034	.6181	.0455	7.66	1 51.8	.2865	8 28.0	6.70
	19	+1.041	−0.6167	+0.0440	7.69	1 50.5	1.2859	8 24.0	+6.78
	20	.048	.6153	.0426	7.71	1 49.2	.2853	8 20.0	6.86
	21	.054	.6138	.0412	7.74	1 48.0	.2847	8 16.0	6.93
	22	.061	.6124	.0398	7.77	1 46.8	.2841	8 12.0	7.00
	23	.068	.6110	.0384	7.80	1 45.6	.2835	8 8.0	7.07
	24	.074	.6096	.0371	7.83	1 44.4	.2830	8 4.0	7.14
	25	.081	.6083	.0357	7.86	1 43.2	.2824	8 0.0	7.20
	26	.087	.6069	.0344	7.88	1 42.1	.2819	7 55.9	7.27
	27	.094	.6055	.0331	7.91	1 41.0	.2813	7 51.8	7.33
	28	.100	.6041	.0319	7.94	1 39.9	.2808	7 47.8	7.39
	29	+1.106	−0.6027	+0.0307	7.97	1 38.9	1.2803	7 43.7	+7.44
	30	.112	.6013	.0296	8.00	1 37.8	.2798	7 39.6	7.50
	31	.118	.5999	.0285	8.02	1 36.8	.2793	7 35.5	7.55
Septbr.	1	.124	.5985	.0274	8.05	1 35.8	.2789	7 31.4	7.60
	2	.130	.5972	.0263	8.08	1 34.8	.2784	7 27.2	7.65
	3	.136	.5958	.0253	8.11	1 33.9	.2780	7 23.1	7.70
	4	.142	.5944	.0243	8.13	1 33.0	.2776	7 19.0	7.74
	5	.148	.5930	.0234	8.16	1 32.1	.2772	7 14.8	7.78
	6	.154	.5917	.0225	8.19	1 31.2	.2768	7 10.6	7.82
	7	.160	.5903	.0217	8.22	1 30.3	.2765	7 6.5	7.86
	8	+1.165	−0.5889	+0.0209	8.24	1 29.5	1.2761	7 2.3	+7.89
	9	.171	.5875	.0201	8.27	1 28.7	.2758	6 58.1	7.93
	10	.176	.5861	.0194	8.30	1 27.9	.2755	6 53.9	7.96
	11	.182	.5847	.0188	8.33	1 27.2	.2752	6 49.7	7.99
	12	.188	.5833	.0182	8.36	1 26.4	.2750	6 45.4	8.01
	13	.193	.5819	.0176	8.38	1 25.7	.2747	6 41.2	8.04
	14	.199	.5805	.0171	8.41	1 25.0	.2745	6 37.0	8.06
	15	.204	.5791	.0166	8.44	1 24.3	.2743	6 32.7	8.08
	16	.209	.5776	.0162	8.47	1 23.7	.2742	6 28.5	8.10
	17	.215	.5761	.0159	8.50	1 23.1	.2740	6 24.2	8.11

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	18	+1.8220	−0.5747	+0.0156	8.″53	$1^h22^m.4$	1.2739	$6^h20^m.0$	+8.″12
	19	.226	.5732	.0154	8.56	1 21.8	.2738	6 15.7	8.13
	20	.231	.5718	.0152	8.59	1 21.3	.2737	6 11.5	8.14
	21	.236	.5703	.0151	8.62	1 20.7	.2737	6 7.2	8.15
	22	.242	.5688	.0150	8.65	1 20.2	.2736	6 2.9	8.15
	23	.247	.5673	.0150	8.68	1 19.6	.2736	5 58.7	8.15
	24	.252	.5657	.0150	8.71	1 19.1	.2737	5 54.4	8.15
	25	.258	.5642	.0151	8.74	1 18.7	.2737	5 50.1	8.14
	26	.263	.5627	.0153	8.77	1 18.2	.2738	5 45.8	8.13
	27	.269	.5611	.0155	8.80	1 17.7	.2739	5 41.5	8.12
	28	+1.274	−0.5595	+0.0158	8.83	1 17.3	1.2740	5 37.3	+8.11
	29	.279	.5579	.0161	8.87	1 16.9	.2741	5 33.0	8.10
	30	.285	.5563	.0165	8.90	1 16.5	.2743	5 28.7	8.09
Oktbr.	1	.290	.5546	.0169	8.93	1 16.2	.2745	5 24.4	8.07
	2	.296	.5529	.0174	8.97	1 15.8	.2747	5 20.1	8.05
	3	.301	.5512	.0180	9.00	1 15.5	.2749	5 15.9	8.02
	4	.307	.5495	.0186	9.03	1 15.1	.2752	5 11.6	8.00
	5	.313	.5478	.0192	9.07	1 14.8	.2754	5 7.3	7 97
	6	.318	.5461	.0199	9.10	1 14.5	.2757	5 3.1	7.94
	7	.324	.5443	.0207	9.14	1 14.3	.2761	4 58.8	7.90
	8	+1.330	−0.5425	+0.0215	9.17	1 14.0	1.2764	4 54.5	+7.87
	9	.335	.5406	.0224	9.21	1 13.7	.2768	4 50.3	7.83
	10	.341	.5388	.0233	9.25	1 13.5	.2771	4 46.0	7.79
	11	.347	.5369	.0242	9.29	1 13.3	.2775	4 41.8	7.75
	12	.353	.5350	.0252	9.32	1 13.1	.2780	4 37.5	7.70
	13	.359	.5331	.0262	9.36	1 12.9	.2784	4 33.3	7.66
	14	.365	.5312	.0273	9.40	1 12.7	.2788	4 29.1	7.61
	15	.371	.5292	.0284	9.44	1 12.5	.2793	4 24.9	7.55
	16	.378	.5272	.0296	9.48	1 12.3	.2798	4 20.7	7.50
	17	.384	.5252	.0308	9.52	1 12.2	.2803	4 16.5	7.44
	18	+1.390	−0.5231	+0.0320	9.56	1 12.0	1.2808	4 12.3	+7.38
	19	.396	.5210	.0333	9.60	1 11.9	.2814	4 8.1	7.32
	20	.403	.5189	.0346	9.65	1 11.7	.2819	4 3.9	7.26
	21	.410	.5167	.0359	9.69	1 11.6	.2825	3 59.7	7.20
	22	.416	.5145	.0372	9.73	1 11.4	.2830	3 55.5	7.13
	23	.423	.5123	.0386	9.78	1 11.3	.2836	3 51.4	7.06
	24	.430	.5101	.0400	9.82	1 11.2	.2842	3 47.2	6.99
	25	.437	.5078	.0414	9.87	1 11.1	.2848	3 43.1	6.91
	26	.444	.5055	.0429	9.92	1 11.0	.2854	3 39.0	6.84
	27	.451	.5031	.0444	9.96	1 10.9	.2860	3 34.8	6.76
	28	+1.458	−0.5007	+0.0459	10.01	1 10.8	1.2867	3 30.7	+6.68
	29	.465	.4983	.0475	10.06	1 10.6	.2873	3 26.6	6.60
	30	.473	.4959	.0490	10.11	1 10.5	.2880	3 22.5	6.51
	31	.480	.4934	.0506	10.16	1 10.4	.2886	3 18.4	6.42
Novbr.	1	.488	.4909	.0522	10.21	1 10.3	.2893	3 14.4	6.34
	2	.495	.4884	.0538	10.26	1 10.2	.2899	3 10.3	6.25
	3	.503	.4858	.0554	10.31	1 10.1	.2906	3 6.3	6.15
	4	.511	.4832	.0570	10.36	1 10.0	.2912	3 2.2	6.06
	5	.519	.4806	.0586	10.42	1 9.9	.2919	2 58.2	5.96
	6	.527	.4779	.0602	10.47	1 9.8	.2925	2 54.2	5.86

1851

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	7	+1.s535	−0.4752	+0.0618	10.″52	1h 9.m7	1.2932	2h 50.m2	+5.″76
	8	.543	.4725	.0634	10.58	1 9.5	.2938	2 46.2	5.66
	9	.552	.4698	.0650	10.63	1 9.4	.2945	2 42.2	5.56
	10	.560	.4670	.0666	10.69	1 9.3	.2951	2 38.2	5.45
	11	.568	.4642	.0682	10.74	1 9.2	.2958	2 34.2	5.34
	12	.577	.4613	.0697	10.80	1 9.1	.2964	2 30.3	5.23
	13	.586	.4585	.0713	10.86	1 8.9	.2970	2 26.3	5.12
	14	.595	.4556	.0728	10.92	1 8.8	.2977	2 22.4	5.01
	15	.603	.4527	.0743	10.98	1 8.6	.2983	2 18.4	4.90
	16	.612	.4497	.0758	11.03	1 8.5	.2989	2 14.5	4.78
	17	+1.622	−0.4467	+0.0773	11.09	1 8.3	1.2995	2 10.6	+4.67
	18	.631	.4436	.0787	11.16	1 8.2	.3001	2 6.7	4.55
	19	.640	.4406	.0802	11.22	1 8.0	.3007	2 2.8	4.43
	20	.649	.4375	.0816	11.28	1 7.8	.3013	1 58.9	4.31
	21	.659	.4345	.0830	11.34	1 7.6	.3018	1 55.1	4.18
	22	.669	.4314	.0844	11.40	1 7.4	.3024	1 51.2	4.06
	23	.678	.4283	.0858	11.47	1 7.2	.3029	1 47.3	3.93
	24	.688	.4251	.0871	11.53	1 7.0	.3035	1 43.5	3.81
	25	.698	.4219	.0884	11.59	1 6.8	.3040	1 39.7	3.68
	26	.708	.4187	.0897	11.66	1 6.6	.3045	1 35.8	3.55
	27	+1.718	−0.4155	+0.0909	11.72	1 6.3	1.3050	1 32.0	+3.42
	28	.728	.4122	.0921	11.79	1 6.1	.3054	1 28.2	3.29
	29	.738	.4090	.0932	11.85	1 5.8	.3059	1 24.3	3.16
	30	.748	.4057	.0943	11.92	1 5.6	.3063	1 20.5	3.02
Dezbr.	1	.758	.4024	.0954	11.98	1 5.3	.3067	1 16.7	2.89
	2	.769	.3991	.0964	12.05	1 5.0	.3071	1 12.9	2.75
	3	.779	.3958	.0974	12.11	1 4.7	.3075	1 9.1	2.62
	4	.790	.3925	.0984	12.18	1 4.5	.3079	1 5.4	2.48
	5	.800	.3892	.0993	12.25	1 4.2	.3083	1 1.6	2.34
	6	.811	.3858	.1001	12.31	1 3.9	.3086	0 57.8	2.20
	7	+1.821	−0.3825	+0.1009	12.38	1 3.6	1.3089	0 54.0	+2.06
	8	.832	.3791	.1016	12.45	1 3.3	.3092	0 50.3	1.92
	9	.843	.3758	.1023	12.52	1 2.9	.3095	0 46.5	1.78
	10	.854	.3724	.1029	12.58	1 2.5	.3097	0 42.7	1.64
	11	.864	.3690	.1035	12.65	1 2.2	.3099	0 39.0	1.50
	12	.875	.3656	.1040	12.72	1 1.8	.3101	0 35.2	1.36
	13	.886	.3622	.1045	12.79	1 1.4	.3103	0 31.5	1.21
	14	.897	.3588	.1049	12.86	1 1.1	.3105	0 27.7	1.07
	15	.908	.3554	1053	12.93	1 0.7	.3107	0 24.0	0.93
	16	.919	.3520	.1057	12.99	1 0.3	.3108	0 20.3	0.78
	17	+1.930	−0.3486	+0.1060	13.06	0 59.8	1.3109	0 16.5	+0.64
	18	.941	.3452	.1062	13.13	0 59.4	.3110	0 12.8	0.50
	19	.952	.3418	.1064	13.20	0 59.0	.3111	0 9.1	0.35
	20	.963	.3384	.1065	13.27	0 58.6	.3111	0 5.3	0.21
	21	.974	.3350	.1065	13.33	0 58.1	.3111	0 1.6	+0.06
	22	.985	.3317	.1065	13.40	0 57.7	.3111	23 57.8	−0.08
	23	1.996	.3283	.1064	13.47	0 57.3	.3111	23 54.1	0.23
	24	2.007	.3249	.1063	13.54	0 56.8	.3110	23 50.4	0.37
	25	.018	.3215	.1061	13.60	0 56.3	.3110	23 46.6	0.52
	26	.029	.3182	.1059	13.67	0 55.9	.3109	23 42.9	0.66

1851

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	27	$+2^s.040$	−0.3148	+0.1056	13″.74	$0^h55^m.4$	1.3108	$23^h39^m.1$	−0″.81
	28	.051	.3115	.1053	13.81	0 54.9	.3107	23 35.4	0.95
	29	.062	.3082	.1049	13.87	0 54.4	.3105	23 31.6	1.09
	30	.073	.3049	.1045	13.94	0 53.9	.3103	23 27.9	1.24
	31	.084	.3016	.1041	14.00	0 53.4	.3101	23 24.1	1.38

1852

Januar	1	$-0^s.976$	−0.6448	+0.1034	7″.12	$10^h12^m.5$	1.3099	$23^h20^m.4$	−1″.52
	2	.965	.6484	.1028	7.05	10 12.0	.3097	23 16.6	1.66
	3	.954	.6519	.1021	6.98	10 11.4	.3094	23 12.8	1.81
	4	.944	.6554	.1014	6.91	10 10.9	.3091	23 9.1	1.95
	5	.933	.6589	.1007	6.84	10 10.4	.3088	23 5.3	2.09
	6	.922	.6624	.0999	6.77	10 9.8	.3085	23 1.5	2.23
	7	.912	.6659	.0990	6.70	10 9.3	.3082	22 57.7	2.37
	8	.901	.6693	.0981	6.63	10 8.8	.3078	22 53.9	2.50
	9	.891	.6728	.0972	6.56	10 8.3	.3075	22 50.1	2.64
	10	.880	.6763	.0962	6.49	10 7.8	.3071	22 46.3	2.78
	11	−0.870	−0.6798	+0.0952	6.42	10 7.3	1.3067	22 42.5	−2.91
	12	.860	.6833	.0941	6.35	10 6.9	.3062	22 38.7	3.05
	13	.849	.6867	.0930	6.28	10 6.4	.3058	22 34.8	3.18
	14	.839	.6902	.0918	6.21	10 6.0	.3053	22 31.0	3.32
	15	.829	.6936	.0906	6.14	10 5.6	.3049	22 27.2	3.45
	16	.819	.6971	.0894	6.07	10 5.2	.3044	22 23.3	3.58
	17	.809	.7005	.0881	6.01	10 4.8	.3039	22 19.5	3.71
	18	.799	.7039	.0868	5.94	10 4.4	.3033	22 15.6	3.84
	19	.789	.7073	.0855	5.87	10 4.0	.3028	22 11.7	3.96
	20	.779	.7107	.0842	5.80	10 3.7	.3023	22 7.8	4.09
	21	−0.770	−0.7140	+0.0828	5.73	10 3.4	1.3017	22 3.9	−4.21
	22	.760	.7174	.0814	5.67	10 3.1	.3011	22 0.0	4.34
	23	.751	.7207	.0799	5.60	10 2.8	.3005	21 56.1	4.46
	24	.742	.7240	.0784	5.53	10 2.5	.2999	21 52.2	4.58
	25	.732	.7273	.0769	5.47	10 2.2	.2993	21 48.3	4.70
	26	.723	.7306	.0754	5.40	10 2.0	.2987	21 44.3	4.82
	27	.714	.7338	.0739	5.34	10 1.8	.2981	21 40.4	4.93
	28	.705	.7370	.0724	5.27	10 1.6	.2975	21 36.4	5.05
	29	.696	.7402	.0708	5.21	10 1.4	.2969	21 32.5	5.16
	30	.687	.7434	.0692	5.15	10 1.1	.2962	21 28.5	5.27
	31	−0.678	−0.7465	+0.0676	5.08	10 0.9	1.2956	21 24.5	−5.38
Februar	1	.670	.7496	.0660	5.02	10 0.7	.2949	21 20.5	5.49
	2	.661	.7527	.0644	4.96	10 0.6	.2943	21 16.5	5.59
	3	.653	.7558	.0627	4.90	10 0.4	.2936	21 12.4	5.69
	4	.645	.7588	.0611	4.84	10 0.3	.2929	21 8.4	5.80
	5	.637	.7618	.0595	4.78	10 0.2	.2923	21 4.3	5.90
	6	.628	.7648	.0579	4.72	10 0.1	.2916	21 0.3	6.00
	7	.620	.7678	.0563	4.66	10 0.0	.2909	20 56.2	6.09
	8	.613	.7707	.0547	4.60	9 59.9	.2903	20 52.1	6.19
	9	.605	.7736	.0531	4.54	9 59.8	.2896	20 48.0	6.28

1852

12h M. Z. Berlin	f	x	y	g	G	log h	H	·i
Februar 10	−0.597	−0.7764	+0.0515	4.″48	9h59.m7	1.2890	20h43.m9	−6.″37
11	.589	.7792	.0499	4.43	9 59.7	.2883	20 39.8	6.46
12	.582	.7820	.0484	4.37	9 59.6	.2877	20 35.7	6.55
13	.574	.7848	.0468	4.32	9 59.5	.2870	20 31.6	6.63
14	.567	.7875	.0453	4.26	9 59.5	.2864	20 27.4	6.71
15	.560	.7902	.0438	4.21	9 59.4	.2858	20 23.3	6.79
16	.553	.7929	.0423	4.15	9 59.4	.2851	20 19.1	6.87
17	.546	.7956	.0408	4.10	9 59.4	.2845	20 14.9	6.95
18	.539	.7982	.0394	4.05	9 59.3	.2839	20 10.7	7.02
19	.532	.8008	.0380	3.99	9 59.3	.2833	20 6.5	7.09
20	−0.525	−0.8033	+0.0366	3.94	9 59.2	1.2828	20 2.3	−7.16
21	.518	.8058	.0352	3.89	9 59.1	.2822	19 58.1	7.23
22	.512	.8083	.0339	3.84	9 59.1	.2816	19 53.9	7.30
23	.505	.8108	.0326	3.79	9 59.0	.2811	19 49.7	7.36
24	.498	.8132	.0313	3.75	9 58.9	.2805	19 45.4	7.42
25	.492	.8156	.0300	3.70	9 58.8	.2800	19 41.2	7.48
26	.485	.8179	.0288	3.65	9 58.7	.2795	19 36.9	7.53
27	.479	.8202	.0276	3.60	9 58.6	.2790	19 32.6	7.59
28	.473	.8225	.0265	3.56	9 58.5	.2786	19 28.4	7.64
29	.467	.8248	.0255	3.51	9 58.3	.2781	19 24.1	7.69
März 1	−0.461	−0.8270	+0.0245	3.47	9 58.1	1.2777	19 19.8	−7.73
2	.455	.8292	.0236	3.42	9 57.9	.2773	19 15.5	7.78
3	.449	.8314	.0227	3.38	9 57.7	.2769	19 11.2	7.82
4	.443	.8336	.0218	3.34	9 57.5	.2765	19 6.9	7.85
5	.437	.8357	.0210	3.29	9 57.2	.2762	19 2.6	7.89
6	.431	.8378	.0202	3.25	9 56.9	.2758	18 58.3	7.92
7	.425	.8399	.0194	3.21	9 56.6	.2755	18 54.0	7.96
8	.419	.8419	.0187	3.17	9 56.2	.2752	18 49.6	7.99
9	.414	.8439	.0181	3.13	9 55.8	.2750	18 45.3	8.01
10	.408	.8459	.0175	3.09	9 55.3	.2747	18 41.0	8.04
11	−0.402	−0.8478	+0.0170	3.05	9 54.8	1.2745	18 36.7	−8.06
12	.397	.8497	.0166	3.01	9 54.2	.2743	18 32.4	8.08
13	.391	.8516	.0162	2.98	9 53.5	.2741	18 28.0	8.10
14	.385	.8535	.0159	2.94	9 52.8	.2740	18 23.7	8.11
15	.380	.8553	.0156	2.90	9 52.1	.2739	18 19.3	8.12
16	.374	.8571	.0154	2.86	9 51.3	.2738	18 15.0	8.13
17	.369	.8589	.0152	2.83	9 50.5	.2737	18 10.7	8.14
18	.363	.8607	.0151	2.79	9 49.6	.2737	18 6.4	8.15
19	.358	.8625	.0150	2.76	9 48.6	.2736	18 2.0	8.15
20	.352	.8643	.0150	2.72	9 47.5	.2736	17 57.7	8.15
21	−0.347	−0.8660	+0.0151	2.69	9 46.4	1.2737	17 53.4	−8.15
22	.341	.8677	.0152	2.65	9 45.2	.2737	17 49.1	8.14
23	.336	.8694	.0154	2.62	9 44.0	.2738	17 44.8	8.13
24	.330	.8711	.0156	2.59	9 42.6	.2739	17 40.4	8.12
25	.324	.8727	.0159	2.55	9 41.2	.2740	17 36.1	8.11
26	.319	.8743	.0163	2.52	9 39.6	.2742	17 31.8	8.10
27	.313	.8759	.0167	2.49	9 37.9	.2743	17 27.5	8.08
28	.308	.8775	.0171	2.46	9 36.2	.2745	17 23.2	8.06
29	.302	.8790	.0176	2.43	9 34.3	.2747	17 18.9	8.04
30	.296	.8806	.0181	2.39	9 32.4	.2750	17 14.7	8.01

1852

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	31	$-0^s.291$	−0.8822	+0.0187	2″.36	$9^h30^m.4$	1.2752	$17^h10^m.4$	−7″.99
April	1	.285	.8837	.0194	2.33	9 28.2	.2755	17 6.2	7.96
	2	.279	.8852	.0201	2.30	9 25.9	.2758	17 1.9	7.93
	3	.273	.8867	.0209	2.27	9 23.5	.2761	16 57.7	7.89
	4	.267	.8881	.0217	2.24	9 20.9	.2765	16 53.4	7.86
	5	.261	.8895	.0225	2.21	9 18.2	.2768	16 49.2	7.82
	6	.255	.8909	.0234	2.19	9 15.4	.2772	16 45.0	7.78
	7	.249	.8923	.0244	2.16	9 12.4	.2776	16 40.8	7.74
	8	.243	.8937	.0254	2.13	9 9.3	.2781	16 36.6	7.69
	9	.237	.8950	.0264	2.11	9 6.1	.2785	16 32.4	7.64
	10	−0.231	−0.8963	+0.0275	2.08	9 2.7	1.2789	16 28.2	−7.59
	11	.225	.8976	.0286	2.05	8 59.2	.2794	16 24.0	7.54
	12	.218	.8989	.0297	2.03	8 55.6	.2799	16 19.9	7.49
	13	.212	.9001	.0309	2.00	8 51.7	.2804	16 15.8	7.43
	14	.205	.9013	.0321	1.98	8 47.7	.2809	16 11.6	7.37
	15	.199	.9025	.0333	1.96	8 43.5	.2814	16 7.5	7.31
	16	.192	.9036	.0346	1.93	8 39.1	.2819	16 3.4	7.25
	17	.186	.9047	.0359	1.91	8 34.6	.2825	15 59.3	7.19
	18	.179	.9057	.0372	1.89	8 29.8	.2830	15 55.2	7.12
	19	.172	.9067	.0386	1.87	8 24.9	.2836	15 51.2	7.06
	20	−0.165	−0.9077	+0.0400	1.85	8 19.7	1.2842	15 47.1	−6.99
	21	.158	.9087	.0414	1.83	8 14.4	.2848	15 43.1	6.91
	22	.151	.9096	.0429	1.81	8 9.0	.2854	15 39.0	6.84
	23	.144	.9104	.0443	1.79	8 3.3	.2860	15 35.0	6.76
	24	.137	.9112	.0458	1.78	7 57.5	.2866	15 31.0	6.68
	25	.130	.9119	.0473	1.77	7 51.6	.2872	15 27.0	6.60
	26	.122	.9126	.0488	1.75	7 45.4	.2879	15 23.1	6.52
	27	.115	.9132	.0503	1.74	7 39.1	.2885	15 19.1	6.44
	28	.107	.9138	.0518	1.73	7 32.6	.2891	15 15.1	6.35
	29	.099	.9143	.0533	1.72	7 26.0	.2897	15 11.2	6.26
	30	−0.092	−0.9148	+0.0549	1.71	7 19.2	1.2904	15 7.3	−6.18
Mai	1	.084	.9152	.0564	1.70	7 12.3	.2910	15 3.4	6.09
	2	.076	.9155	.0579	1.69	7 5.2	.2916	14 59.5	5.99
	3	.068	.9157	.0595	1.69	6 58.1	.2923	14 55.6	5.90
	4	.060	.9158	.0610	1.69	6 50.9	.2929	14 51.8	5.80
	5	.052	.9158	.0626	1.69	6 43.5	.2935	14 47.9	5.71
	6	.044	.9158	.0641	1.69	6 36.1	.2942	14 44.1	5.61
	7	.035	.9157	.0657	1.69	6 28.6	.2948	14 40.2	5.51
	8	.027	.9155	.0672	1.69	6 21.1	.2954	14 36.4	5.40
	9	.018	.9152	.0687	1.70	6 13.5	.2960	14 32.6	5.30
	10	−0.010	−0.9148	+0.0702	1.71	6 5.9	1.2966	14 28.8	−5.20
	11	−0.001	.9143	.0717	1.72	5 58.3	.2972	14 25.0	5.09
	12	+0.008	.9137	.0732	1.73	5 50.7	.2978	14 21.3	4.98
	13	.016	.9131	.0747	1.74	5 43.1	.2984	14 17.5	4.87
	14	.025	.9124	.0761	1.76	5 35.5	.2990	14 13.8	4.76
	15	.034	.9116	.0775	1.77	5 28.1	.2996	14 10.1	4.65
	16	.043	.9107	.0789	1.79	5 20.8	.3001	14 6.3	4.54
	17	.052	.9097	.0803	1.81	5 13.5	.3007	14 2.6	4.42
	18	.062	.9086	.0817	1.83	5 6.3	.3012	13 58.9	4.31
	19	.071	.9075	.0830	1.85	4 59.3	.3018	13 55.2	4.19

1852

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	20	+0.s081	−0.9063	+0.0843	1.″88	$4^h52^m.3$	1.3023	$13^h51^m.5$	−4.″07
	21	.090	.9050	.0856	1.90	4 45.3	.3028	13 47.9	3.95
	22	.100	.9037	.0869	1.93	4 38.6	.3033	13 44.2	3.83
	23	.109	.9023	.0881	1.96	4 31.9	.3038	13 40.6	3.71
	24	.119	.9008	.0893	1.99	4 25.4	.3043	13 36.9	3.59
	25	.129	.8992	.0905	2.02	4 19.1	.3048	13 33.3	3.47
	26	.139	.8975	.0916	2.05	4 13.0	.3052	13 29.7	3.34
	27	.149	.8958	.0927	2.09	4 6.9	.3057	13 26.1	3.22
	28	.158	.8940	.0937	2.12	4 1.0	.3061	13 22.5	3.09
	29	.168	.8922	.0947	2.16	3 55.3	.3065	13 18.9	2.97
	30	+0.178	−0.8903	+0.0957	2.20	3 49.6	1.3069	13 15.3	−2.84
	31	.189	.8884	.0967	2.24	3 44.1	.3073	13 11.7	2.71
Juni	1	.199	.8864	.0976	2.28	3 38.7	.3076	13 8.1	2.58
	2	.209	.8843	.0985	2.32	3 33.5	.3080	13 4.6	2.45
	3	.219	.8822	.0994	2.36	3 28.5	.3083	13 1.0	2.32
	4	.230	.8801	.1002	2.40	3 23.5	.3086	12 57.5	2.19
	5	.240	.8779	.1009	2.45	3 18.6	.3089	12 53.9	2.06
	6	.250	.8757	.1016	2.49	3 13.8	.3092	12 50.4	1.93
	7	.261	.8734	.1022	2.54	3 9.2	.3094	12 46.9	1.80
	8	.271	.8711	.1028	2.58	3 4.6	.3097	12 43.3	1.66
	9	+0.282	−0.8687	+0.1034	2.63	3 0.2	1.3099	12 39.8	−1.53
	10	.293	.8664	.1039	2.68	2 56.0	.3101	12 36.3	1.40
	11	.303	.8640	.1044	2.73	2 51.8	.3103	12 32.7	1.26
	12	.314	.8616	.1048	2.78	2 47.8	.3105	12 29.2	1.13
	13	.324	.8591	.1052	2.83	2 43.8	.3106	12 25.7	0.99
	14	.335	.8566	.1055	2.88	2 39.9	.3107	12 22.2	0.86
	15	.346	.8540	.1058	2.93	2 36.0	.3108	12 18.7	0.72
	16	.356	.8515	.1060	2.98	2 32.3	.3109	12 15.2	0.59
	17	.367	.8489	.1062	3.03	2 28.7	.3110	12 11.7	0.45
	18	.378	.8463	.1064	3.08	2 25.1	.3111	12 8.2	0.32
	19	+0.389	−0.8437	+0.1065	3.13	2 21.7	1.3111	12 4.7	−0.18
	20	.399	.8411	.1065	3.19	2 18.3	.3111	12 1.2	−0.05
	21	.410	.8384	.1065	3.24	2 15.0	.3111	11 57.7	+0.09
	22	.421	.8357	.1064	3.29	2 11.7	.3111	11 54.2	0.22
	23	.431	.8330	.1063	3.35	2 8.5	.3111	11 50.7	0.36
	24	.442	.8303	.1062	3.40	2 5.4	.3110	11 47.2	0.49
	25	.453	.8276	.1060	3.46	2 2.4	.3109	11 43.7	0.63
	26	.464	.8249	.1057	3.51	1 59.4	.3108	11 40.2	0.76
	27	.474	.8222	.1054	3.56	1 56.5	.3107	11 36.7	0.90
	28	.485	.8195	.1051	3.62	1 53.7	.3106	11 33.2	1.03
	29	+0.496	−0.8167	+0.1047	3.67	1 50.9	1.3104	11 29.7	+1.17
	30	.506	.8139	.1043	3.73	1 48.1	.3102	11 26.2	1.30
Juli	1	.517	.8111	.1038	3.79	1 45.4	.3100	11 22.6	1.44
	2	.527	.8083	.1033	3.84	1 42.8	.3098	11 19.1	1.57
	3	.538	.8056	.1027	3.90	1 40.2	.3096	11 15.6	1.70
	4	.548	.8028	.1021	3.95	1 37.7	.3094	11 12.1	1.84
	5	.559	.8001	.1014	4.01	1 35.2	.3091	11 8.5	1.97
	6	.569	.7973	.1007	4.06	1 32.7	.3088	11 5.0	2.10
	7	.580	.7946	.0999	4.12	1 30.3	.3085	11 1.5	2.23
	8	.590	.7918	.0991	4.17	1 28.0	.3082	10 57.9	2.36

1852

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	9	+0.8600	−0.7891	+0.0983	4″.23	$1^h25^m.7$	1.3079	$10^h54^m.4$	+2″.49
	10	.610	.7863	.0974	4.28	1 23.4	.3076	10 50.8	2.62
	11	.621	.7836	.0965	4.34	1 21.2	.3072	10 47.3	2.75
	12	.631	.7808	.0955	4.39	1 19.0	.3068	10 43.7	2.87
	13	.641	.7781	.0945	4.45	1 16.8	.3064	10 40.1	3.00
	14	.651	.7754	.0935	4.50	1 14.7	.3060	10 36.5	3.12
	15	.661	.7726	.0924	4.56	1 12.7	.3056	10 33.0	3.25
	16	.671	.7698	.0913	4.61	1 10.6	.3051	10 29.4	3.37
	17	.681	.7671	.0902	4.67	1 8.6	.3047	10 25.8	3.50
	18	.690	.7644	.0890	4.72	1 6.6	.3042	10 22.2	3.62
	19	+0.700	−0.7617	+0.0878	4.78	1 4.7	1.3037	10 18.5	+3.74
	20	.710	.7590	.0866	4.83	1 2.8	.3033	10 14.9	3.86
	21	.719	.7564	.0854	4.88	1 1.0	.3028	10 11.3	3.98
	22	.729	.7537	.0841	4.94	0 59.1	.3022	10 7.6	4.10
	23	.738	.7511	.0828	4.99	0 57.3	.3017	10 4.0	4.22
	24	.748	.7484	.0814	5.04	0 55.6	.3012	10 0.3	4.33
	25	.757	.7458	.0800	5.10	0 53.8	.3006	9 56.6	4.45
	26	.766	.7431	.0786	5.15	0 52.1	.3000	9 52.9	4.56
	27	.775	.7405	.0772	5.20	0 50.4	.2995	9 49.2	4.67
	28	.784	.7379	.0758	5.26	0 48.7	.2989	9 45.5	4.78
	29	+0.793	−0.7353	+0.0744	5.31	0 47.1	1.2984	9 41.8	+4.89
	30	.802	.7327	.0730	5.36	0 45.5	.2978	9 38.1	5.00
	31	.811	.7302	.0715	5.41	0 43.9	.2972	9 34.3	5.10
August	1	.820	.7276	.0700	5.46	0 42.4	.2966	9 30.6	5.21
	2	.828	.7251	.0685	5.51	0 40.9	.2960	9 26.8	5.32
	3	.837	.7226	.0670	5.56	0 39.4	.2953	9 23.1	5.42
	4	.845	.7201	.0655	5.61	0 37.9	.2947	9 19.3	5.52
	5	.854	.7176	.0639	5.66	0 36.5	.2941	9 15.5	5.62
	6	.862	.7152	.0624	5.71	0 35.0	.2935	9 11.7	5.72
	7	.870	.7127	.0609	5.76	0 33.6	.2929	9 7.8	5.81
	8	+0.878	−0.7103	+0.0594	5.81	0 32.3	1.2922	9 4.0	+5.91
	9	.886	.7079	.0578	5.86	0 31.0	.2916	9 0.2	6.00
	10	.894	.7055	.0563	5.90	0 29.7	.2910	8 56.3	6.09
	11	.902	.7032	.0548	5.95	0 28.4	.2904	8 52.4	6.18
	12	.910	.7008	.0533	6.00	0 27.2	.2897	8 48.5	6.27
	13	.918	.6984	.0518	6.05	0 25.9	.2891	8 44.7	6.36
	14	.925	.6960	.0503	6.09	0 24.7	.2885	8 40.7	6.44
	15	.933	.6937	.0488	6.14	0 23.6	.2879	8 36.8	6.52
	16	.940	.6914	.0473	6.19	0 22.4	.2872	8 32.9	6.60
	17	.948	.6891	.0458	6.23	0 21.3	.2866	8 28.9	6.68
	18	+0.955	−0.6869	+0.0443	6.28	0 20.2	1.2860	8 25.0	+6.76
	19	.962	.6847	.0429	6.32	0 19.1	.2854	8 21.0	6.84
	20	.969	.6825	.0415	6.37	0 18.1	.2848	8 17.0	6.91
	21	.976	.6803	.0401	6.41	0 17.1	.2842	8 13.0	6.98
	22	.983	.6782	.0388	6.45	0 16.1	.2837	8 9.0	7.05
	23	.990	.6760	.0374	6.50	0 15.1	.2831	8 5.0	7.12
	24	0.997	.6739	.0361	6.54	0 14.2	.2826	8 0.9	7.19
	25	1.004	.6717	.0348	6.58	0 13.3	.2820	7 56.9	7.25
	26	.010	.6696	.0335	6.62	0 12.4	.2815	7 52.8	7.31
	27	.017	.6675	.0322	6.67	0 11.5	.2809	7 48.7	7.37

1852

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	28	+1.s024	−0.6654	+0.0310	6.″71	$0^h10^m.7$	1.2804	$7^h44^m.7$	+7.″43
	29	.030	.6633	.0298	6.75	0 9.9	.2799	7 40.6	7.48
	30	.037	.6613	.0287	6.79	0 9.1	.2795	7 36.5	7.54
	31	.043	.6593	.0276	6.83	0 8.3	.2790	7 32.4	7.59
Septbr.	1	.049	.6573	.0266	6.87	0 7.6	.2786	7 28.2	7.64
	2	.056	.6553	.0256	6.91	0 6.8	.2781	7 24.1	7.68
	3	.062	.6533	.0246	6.95	0 6.1	.2777	7 20.0	7.73
	4	.068	.6513	.0236	6.99	0 5.5	.2773	7 15.8	7.77
	5	.074	.6493	.0227	7.03	0 4.8	.2769	7 11.6	7.81
	6	.080	.6473	.0219	7.07	0 4.2	.2766	7 7.5	7.85
	7	+1.086	−0.6454	+0.0211	7.11	0 3.6	1.2762	7 3.3	+7.89
	8	.092	.6435	.0203	7.15	0 3.1	.2759	6 59.1	7.92
	9	.098	.6416	.0196	7.19	0 2.5	.2756	6 54.9	7.95
	10	.104	.6397	.0189	7.23	0 2.0	.2753	6 50.7	7.98
	11	.110	.6378	.0183	7.26	0 1.5	.2750	6 46.5	8.01
	12	.116	.6359	.0177	7.30	0 1.0	.2748	6 42.2	8.03
	13	.121	.6340	.0172	7.34	0 0.6	.2746	6 38.0	8.05
	14	.127	.6321	.0167	7.38	0 0.1	.2744	6 33.8	8.07
	15	.133	.6302	.0163	7.42	23 59.7	.2742	6 29.5	8.09
	16	.139	.6283	.0160	7.45	23 59.4	.2741	6 25.3	8.11
	17	+1.144	−0.6264	+0.0157	7.49	23 59.0	1.2739	6 21.0	+8.12
	18	.150	.6245	.0154	7.53	23 58.7	.2738	6 16.8	8.13
	19	.156	.6227	.0152	7.56	23 58.3	.2737	6 12.5	8.14
	20	.162	.6209	.0151	7.60	23 58.0	.2737	6 8.2	8.14
	21	.167	.6190	.0150	7.64	23 57.8	.2737	6 4.0	8.15
	22	.173	.6172	.0150	7.68	23 57.5	.2736	5 59.7	8.15
	23	.179	.6153	.0150	7.71	23 57.3	.2737	5 55.4	8.15
	24	.184	.6134	.0151	7.75	23 57.1	.2737	5 51.1	8.14
	25	.190	.6115	.0153	7.79	23 56.9	.2737	5 46.9	8.14
	26	.196	.6097	.0155	7.83	23 56.8	.2738	5 42.6	8.13
	27	+1.202	−0.6078	+0.0157	7.86	23 56.6	1.2739	5 38.3	+8.12
	28	.207	.6059	.0160	7.90	23 56.5	.2741	5 34.0	8.11
	29	.213	.6040	.0164	7.94	23 56.4	.2742	5 29.7	8.09
	30	.219	.6021	.0168	7.98	23 56.3	.2744	5 25.4	8.07
Oktbr.	1	.225	.6002	.0173	8.02	23 56.2	.2746	5 21.2	8.05
	2	.230	.5983	.0178	8.05	23 56.2	.2748	5 16.9	8.03
	3	.236	.5964	.0184	8.09	23 56.1	.2751	5 12.6	8.00
	4	.242	.5945	.0191	8.13	23 56.1	.2754	5 8.4	7.97
	5	.248	.5925	.0198	8.17	23 56.1	.2757	5 4.1	7.94
	6	.254	.5906	.0205	8.21	23 56.2	.2760	4 59.8	7.91
	7	+1.260	−0.5886	+0.0213	8.25	23 56.2	1.2763	4 55.6	+7.88
	8	.266	.5866	.0221	8.29	23 56.3	.2767	4 51.3	7.84
	9	.273	.5846	.0230	8.33	23 56.4	.2770	4 47.1	7.80
	10	.279	.5826	.0239	8.37	23 56.4	.2774	4 42.8	7.76
	11	.285	.5805	.0249	8.41	23 56.5	.2779	4 38.6	7.71
	12	.291	.5785	.0259	8.45	22 56.7	.2783	4 34.3	7.67
	13	.298	.5764	.0270	8.49	23 56.8	.2787	4 30.1	7.62
	14	.304	.5743	.0281	8.54	23 56.9	.2792	4 25.9	7.57
	15	.311	.5722	.0292	8.58	23 57.1	.2797	4 21.7	7.51
	16	.317	.5701	.0304	8.62	23 57.2	.2802	4 17.5	7.46

1852

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	17	+1^s.324	−0.5680	+0.0316	8″.66	$23^h57^m.4$	1.2807	$4^h13^m.3$	+7″.40
	18	.331	.5658	.0329	8.71	23 57.5	.2812	4 9.1	7.34
	19	.337	.5636	.0342	8.75	23 57.7	.2818	4 4.9	7.28
	20	.344	.5613	.0355	8.80	23 57.9	.2823	4 0.7	7.21
	21	.351	.5590	.0369	8.84	23 58.1	.2829	3 56.6	7.14
	22	.358	.5567	.0383	8.89	23 58.4	.2835	3 52.4	7.07
	23	.365	.5544	.0397	8.93	23 58.6	.2841	3 48.2	7.00
	24	.373	.5520	.0411	8.98	23 58.8	.2847	3 44.1	6.93
	25	.380	.5496	.0426	9.03	23 59.0	.2853	3 40.0	6.85
	26	.387	.5472	.0441	9.08	23 59.3	.2859	3 35.8	6.78
	27	+1.395	−0.5448	+0 0456	9.13	23 59.5	1.2865	3 31.7	+6.70
	28	.402	.5424	.0471	9.18	23 59.8	.2872	3 27.6	6.62
	29	.410	.5399	.0487	9.23	0 0.1	.2878	3 23.5	6.53
	30	.418	.5374	.0502	9.28	0 0.3	.2884	3 19.4	6.45
	31	.426	.5348	.0518	9.33	0 0.6	.2891	3 15.4	6.36
Novbr.	1	.434	.5322	.0533	9.38	0 0.8	.2897	3 11.3	6.27
	2	.442	.5295	.0549	9.43	0 1.1	.2904	3 7.3	6.18
	3	.450	.5269	.0565	9.49	0 1.3	.2911	3 3.2	6.08
	4	.458	.5242	.0581	9.54	0 1.6	.2917	2 59.2	5.99
	5	.466	.5215	.0598	9.59	0 1.8	.2924	2 55.1	5.89
	6	+1.475	−0.5188	+0.0614	9.65	0 2.0	1.2930	2 51.1	+5.79
	7	.483	.5160	.0630	9.71	0 2.3	.2937	2 47.1	5.69
	8	.492	.5132	.0646	9.76	0 2.5	.2943	2 43.1	5.58
	9	.501	.5104	.0662	9.82	0 2.8	.2950	2 39.2	5.48
	10	.510	.5075	.0678	9.88	0 3.0	.2956	2 35.2	5.37
	11	.518	.5046	.0694	9.93	0 3.2	.2963	2 31.2	5.26
	12	.527	.5016	.0709	9.99	0 3.5	.2969	2 27.3	5.15
	13	.537	.4986	.0724	10.05	0 3.7	.2975	2 23.3	5.04
	14	.546	.4956	.0739	10.11	0 3.9	.2981	2 19.4	4.93
	15	.555	.4926	.0754	10.17	0 4.1	.2987	2 15.5	4.81
	16	+1.564	−0.4895	+0.0769	10.24	0 4.3	1.2993	2 11.6	+4.69
	17	.574	.4864	.0784	10.30	0 4.5	.2999	2 7.7	4.58
	18	.584	.4833	.0798	10.36	0 4.7	.3005	2 3.8	4.46
	19	.593	.4802	.0813	10.42	0 4.9	.3011	1 59.9	4.34
	20	.603	.4770	.0827	10.49	0 5.0	.3017	1 56.0	4.21
	21	.613	.4738	.0841	10.55	0 5.2	.3022	1 52.1	4.09
	22	.623	.4705	.0855	10.62	0 5.3	.3028	1 48.3	3.96
	23	.633	.4672	.0868	10.68	0 5.4	.3033	1 44.4	3.84
	24	.643	.4639	.0881	10.75	0 5.6	.3038	1 40.6	3.71
	25	.653	.4606	.0894	10.82	0 5.7	.3043	1 36.7	3.58
	26	+1.664	−0.4572	+0.0906	10.88	0 5.8	1.3048	1 32.9	+3.45
	27	.674	.4538	.0918	10.95	0 5.9	.3053	1 29.1	3.32
	28	.684	.4504	.0929	11.02	0 6.0	.3058	1 25.3	3.19
	29	.695	.4470	.0941	11.09	0 6.1	.3062	1 21.5	3.06
	30	.706	.4436	.0952	11.16	0 6.1	.3066	1 17.7	2.92
Dezbr.	1	.716	.4401	.0962	11.23	0 6.2	.3070	1 13.9	2.79
	2	.727	.4366	.0972	11.30	0 6.2	.3074	1 10.1	2.65
	3	.738	.4331	.0981	11.37	0 6.2	.3078	1 6.3	2.51
	4	.748	.4295	.0990	11.44	0 6.3	.3082	1 2.5	2.38
	5	.759	.4260	.0998	11.51	0 6.3	.3085	0 58.7	2.24

1852

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	6	+1.770	−0.4224	+0.1006	11.58	0h 6.3	1.3088	0h 54.9	+2.10
	7	.781	.4188	.1014	11.65	0 6.2	.3091	0 51.2	1.96
	8	.792	.4152	.1021	11.73	0 6.2	.3094	0 47.4	1.82
	9	.804	.4116	.1028	11.80	0 6.2	.3097	0 43.7	1.68
	10	.815	.4080	.1034	11.87	0 6.1	.3099	0 39.9	1.53
	11	.826	.4044	.1039	11.94	0 6.0	.3101	0 36.1	1.39
	12	.837	.4007	.1044	12.02	0 6.0	.3103	0 32.4	1.25
	13	.848	.3971	.1048	12.09	0 5.9	.3105	0 28.6	1.11
	14	.859	.3934	.1052	12.16	0 5.8	.3106	0 24.9	0.96
	15	.871	.3898	.1056	12.24	0 5.7	.3108	0 21.2	0.82
	16	+1.882	−0.3861	+0.1059	12.31	0 5.5	1.3109	0 17.5	+0.68
	17	.893	.3824	.1061	12.38	0 5.4	.3110	0 13.7	0.53
	18	.905	.3787	.1063	12.46	0 5.2	.3110	0 10.0	0.39
	19	.916	.3750	.1064	12.53	0 5.1	.3111	0 6.2	0.24
	20	.928	.3713	.1064	12.61	0 4.9	.3111	0 2.5	+0.10
	21	.939	.3676	.1064	12.68	0 4.7	.3111	23 58.8	−0.05
	22	.950	.3639	.1064	12.76	0 4.5	.3111	23 55.0	0.19
	23	.962	.3602	.1063	12.83	0 4.3	.3111	23 51.3	0.34
	24	.973	.3565	.1062	12.90	0 4.1	.3110	23 47.5	0.48
	25	.985	.3528	.1060	12.98	0 3.9	.3109	23 43.8	0.63
	26	+1.996	−0.3492	+0.1057	13.05	0 3.7	1.3108	23 40.0	−0.77
	27	2.007	.3455	.1054	13.12	0 3.4	.3107	23 36.3	0.92
	28	.019	.3418	.1050	13.20	0 3.2	.3105	23 32.5	1.06
	29	.030	.3381	.1046	13.27	0 2.9	.3104	23 28.8	1.20
	30	.041	.3345	.1042	13.34	0 2.7	.3102	23 25.0	1.34
	31	.052	.3309	.1037	13.42	0 2.4	.3100	23 21.3	1.49

1853

Januar	1	−1.008	−0.6728	+0.1030	6.56	11h 55.7	1.3097	23h 17.5	−1.63
	2	0.997	.6764	.1023	6.49	11 56.2	.3095	23 13.7	1.77
	3	.985	.6800	.1016	6.42	11 56.8	.3092	23 10.0	1.91
	4	.974	.6836	.1009	6.34	11 57.4	.3089	23 6.2	2.05
	5	.963	.6872	.1001	6.27	11 58.0	.3086	23 2.4	2.19
	6	.952	.6907	.0993	6.20	11 58.7	.3083	22 58.6	2.33
	7	.942	.6943	.0984	6.13	11 59.4	.3079	22 54.8	2.47
	8	.931	.6978	.0975	6.06	12 0.2	.3076	22 51.0	2.61
	9	.920	.7013	.0965	5.99	12 1.0	.3072	22 47.2	2.75
	10	.909	.7048	.0955	5.92	12 1.8	.3068	22 43.4	2.88
	11	−0.899	−0.7083	+0.0944	5.85	12 2.7	1.3063	22 39.6	−3.02
	12	.888	.7117	.0933	5.78	12 3.6	.3059	22 35.8	3.15
	13	.877	.7151	.0921	5.71	12 4.6	.3054	22 31.9	3.28
	14	.867	.7185	.0909	5.64	12 5.6	.3050	22 28.1	3.42
	15	.857	.7219	.0897	5.58	12 6.6	.3045	22 24.3	3.55
	16	.846	.7252	.0884	5.51	12 7.7	.3040	22 20.4	3.68
	17	.836	.7285	.0871	5.44	12 8.8	.3035	22 16.5	3.81
	18	.826	.7317	.0858	5.38	12 10.0	.3029	22 12.7	3.93
	19	.816	.7349	.0845	5.31	12 11.2	.3024	22 8.8	4.06
	20	.806	.7381	.0831	5.25	12 12.5	.3018	22 4.9	4.18

1853

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	21	$-0^s.796$	−0.7413	+0.0817	5″.19	$12^h 13^m.8$	1.3013	$22^h 1^m.0$	−4″.31
	22	.786	.7444	.0802	5.12	12 15.2	.3007	21 57.1	4.43
	23	.776	.7475	.0787	5.06	12 16.6	.3001	21 53.2	4.55
	24	.767	.7505	.0772	5.00	12 18.0	.2995	21 49.2	4.67
	25	.757	.7535	.0757	4.94	12 19.5	.2989	21 45.3	4.79
	26	.748	.7564	.0742	4.88	12 21.0	.2983	21 41.3	4.90
	27	.739	.7593	.0727	4.83	12 22.6	.2977	21 37.4	5.02
	28	.729	.7621	.0712	4.77	12 24.2	.2970	21 33.4	5.13
	29	.720	.7649	.0696	4.71	12 25.8	.2964	21 29.4	5.24
	30	.711	.7677	.0680	4.66	12 27.5	.2957	21 25.4	5.35
	31	−0.702	−0.7704	+0.0664	4.60	12 29.2	1.2951	21 21.4	−5.46
Februar	1	.693	.7731	.0648	4.55	12 31.0	.2944	21 17.4	5.57
	2	.684	.7757	.0631	4.50	12 32.8	.2938	21 13.4	5.67
	3	.676	.7783	.0615	4.44	12 34.7	.2931	21 9.4	5.77
	4	.667	.7809	.0599	4.39	12 36.6	.2924	21 5.3	5.87
	5	.659	.7834	.0583	4.34	12 38.5	.2918	21 1.3	5.97
	6	.650	.7858	.0567	4.29	12 40.5	.2911	20 57.2	6.07
	7	.642	.7882	.0551	4.25	12 42.5	.2904	20 53.1	6.17
	8	.634	.7905	.0535	4.20	12 44.5	.2898	20 49.0	6.26
	9	.626	.7928	.0519	4.15	12 46.5	.2891	20 44.9	6.35
	10	−0.618	−0.7950	+0.0503	4.11	12 48.6	1.2885	20 40.8	−6.44
	11	.610	.7972	.0488	4.07	12 50.7	.2878	20 36.7	6.53
	12	.602	.7994	.0472	4.02	12 52.9	.2872	20 32.6	6.61
	13	.595	.8015	.0457	3.98	12 55.1	.2866	20 28.4	6.69
	14	.587	.8036	.0441	3.94	12 57.3	.2859	20 24.3	6.77
	15	.579	.8056	.0426	3.90	12 59.5	.2853	20 20.1	6.85
	16	.572	.8076	.0411	3.86	13 1.7	.2847	20 15.9	6.93
	17	.565	.8096	.0397	3.82	13 4.0	.2841	20 11.7	7.00
	18	.558	.8115	.0383	3.78	13 6.3	.2835	20 7.6	7.08
	19	.550	.8134	.0369	3.74	13 8.6	.2829	20 3.4	7.15
	20	−0.543	−0.8152	+0.0355	3.70	13 10.9	1.2823	19 59.1	−7.21
	21	.536	.8170	.0342	3.67	13 13.2	.2818	19 54.9	7.28
	22	.529	.8188	.0329	3.63	13 15.5	.2812	19 50.7	7.34
	23	.522	.8205	.0316	3.60	13 17.9	.2807	19 46.5	7.40
	24	.516	.8222	.0303	3.56	13 20.2	.2801	19 42.2	7.46
	25	.509	.8239	.0291	3.53	13 22.6	.2796	19 37.9	7.52
	26	.502	.8255	.0280	3.50	13 24.9	.2791	19 33.7	7.57
	27	.496	.8271	.0269	3.47	13 27.3	.2787	19 29.4	7.62
	28	.489	.8287	.0258	3.44	13 29.7	.2782	19 25.1	7.67
März	1	.483	.8302	.0248	3.40	13 32.0	.2778	19 20.8	7.72
	2	−0.476	−0.8317	+0.0238	3.37	13 34.4	1.2774	19 16.5	−7.77
	3	.470	.8332	.0229	3.34	13 36.7	.2770	19 12.3	7.81
	4	.464	.8347	.0220	3.31	13 39.1	.2766	19 8.0	7.85
	5	.457	.8362	.0212	3.28	13 41.4	.2763	19 3.6	7.88
	6	.451	.8376	.0204	3.26	13 43.8	.2759	18 59.3	7.92
	7	.445	.8390	.0197	3.23	13 46.2	.2756	18 55.0	7.95
	8	.439	.8404	.0190	3.20	13 48.5	.2753	18 50.7	7.98
	9	.433	.8418	.0183	3.17	13 50.8	.2750	18 46.4	8.01
	10	.427	.8431	.0177	3.14	13 53.2	.2748	18 42.1	8.03
	11	.421	.8445	.0172	3.12	13 55.5	.2746	18 37.7	8.06

1853

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	12	−0.415	−0.8458	+0.0167	3".09	$13^h57^m.8$	1.2744	$18^h33^m.4$	−8".08
	13	.409	.8472	.0163	3.06	14 0.1	.2742	18 29.1	8.09
	14	.403	.8485	.0159	3.04	14 2.4	.2740	18 24.7	8.11
	15	.397	.8499	.0156	3.01	14 4.7	.2739	18 20.4	8.12
	16	.391	.8512	.0154	2.98	14 7.0	.2738	18 16.1	8.13
	17	.385	.8526	.0152	2.96	14 9.3	.2737	18 11.7	8.14
	18	.380	.8539	.0151	2.93	14 11.5	.2737	18 7.4	8.15
	19	.374	.8553	.0150	2.90	14 13.8	.2736	18 3.1	8.15
	20	.368	.8566	.0150	2.87	14 16.0	.2736	17 58.8	8.15
	21	.362	.8580	.0150	2.85	14 18.3	.2737	17 54.4	8.15
	22	−0.356	−0.8593	+0.0151	2.82	14 20.5	1.2737	17 50.1	−8.14
	23	.350	.8607	.0153	2.79	14 22.8	.2738	17 45.8	8.13
	24	.344	.8621	.0155	2.76	14 25.0	.2739	17 41.5	8.12
	25	.338	.8635	.0158	2.74	14 27.3	.2740	17 37.2	8.11
	26	.333	.8649	.0161	2.71	14 29.6	.2741	17 32.9	8.10
	27	.327	.8663	.0165	2.68	14 31.9	.2743	17 28.6	8.08
	28	.321	.8677	.0169	2.65	14 34.3	.2745	17 24.3	8.06
	29	.315	.8692	.0174	2.62	14 36.6	.2747	17 20.0	8.04
	30	.309	.8706	.0179	2.59	14 39.0	.2749	17 15.7	8.02
	31	.303	.8721	.0185	2.56	14 41.4	.2751	17 11.4	7.99
April	1	−0.296	−0.8735	+0.0192	2.54	14 43.8	1.2754	17 7.2	−7.97
	2	.290	.8750	.0199	2.51	14 46.2	.2757	17 2.9	7.94
	3	.284	.8765	.0207	2.48	14 48.7	.2760	16 58.7	7.90
	4	.278	.8780	.0215	2.45	14 51.2	.2764	16 54.4	7.87
	5	.272	.8795	.0223	2.41	14 53.7	.2768	16 50.2	7.83
	6	.266	.8811	.0232	2.38	14 56.3	.2771	16 46.0	7.79
	7	.259	.8826	.0241	2.35	14 58.9	.2775	16 41.8	7.75
	8	.253	.8842	.0251	2.32	15 1.6	.2780	16 37.6	7.70
	9	.246	.8858	.0261	2.29	15 4.3	.2784	16 33.4	7.66
	10	.240	.8874	.0272	2.26	15 7.1	.2788	16 29.2	7.61
	11	−0.233	−0.8890	+0.0283	2.22	15 10.0	1.2793	16 25.1	−7.55
	12	.227	.8906	.0294	2.19	15 13.0	.2798	16 20.9	7.50
	13	.220	.8922	.0306	2.16	15 16.1	.2803	16 16.8	7.45
	14	.213	.8939	.0318	2.13	15 19.3	.2808	16 12.6	7.39
	15	.206	.8955	.0330	2.09	15 22.6	.2813	16 8.5	7.33
	16	.199	.8972	.0343	2.06	15 26.0	.2818	16 4.4	7.27
	17	.192	.8989	.0356	2.03	15 29.5	.2824	16 0.3	7.21
	18	.185	.9006	.0369	1.99	15 33.2	.2829	15 56.2	7.14
	19	.178	.9023	.0383	1.96	15 37.1	.2835	15 52.1	7.07
	20	.171	.9040	.0397	1.93	15 41.1	.2840	15 48.1	7.00
	21	−0.164	−0.9057	+0.0411	1.89	15 45.3	1.2846	15 44.0	−6.93
	22	.156	.9073	.0425	1.86	15 49.7	.2852	15 40.0	6.86
	23	.149	.9090	.0439	1.83	15 54.2	.2858	15 36.0	6.78
	24	.141	.9106	.0454	1.79	15 59.0	.2865	15 32.0	6.70
	25	.134	.9122	.0469	1.76	16 4.0	.2871	15 28.0	6.62
	26	.126	.9138	.0484	1.73	16 9.2	.2877	15 24.0	6.54
	27	.118	.9154	.0499	1.70	16 14.7	.2883	15 20.1	6.46
	28	.110	.9170	.0514	1.66	16 20.5	.2890	15 16.1	6.37
	29	.102	.9185	.0530	1.63	16 26.5	.2896	15 12.2	6.29
	30	.094	.9199	.0545	1.61	16 32.8	.2902	15 8.2	6.20

1853

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	1	−0.086	−0.9213	+0.0561	1.58	$16^h 39^m.4$	1.2909	$15^h 4^m.3$	−6.11
	2	.078	.9226	.0576	1.55	16 46.3	.2915	15 0.4	6.02
	3	.070	.9239	.0592	1.52	16 53.6	.2921	14 56.6	5.92
	4	.061	.9251	.0607	1.50	17 1.2	.2928	14 52.7	5.83
	5	.053	.9262	.0623	1.48	17 9.0	.2934	14 48.8	5.73
	6	.045	.9273	.0638	1.46	17 17.2	.2940	14 45.0	5.63
	7	.036	.9283	.0653	1.44	17 25.8	.2946	14 41.2	5.53
	8	.027	.9292	.0668	1.42	17 34.6	.2953	14 37.4	5.43
	9	.018	.9300	.0683	1.40	17 43.7	.2959	14 33.5	5.33
	10	−0.009	.9306	.0698	1.39	17 53.1	.2965	14 29.7	5.22
	11	0.000	−0.9311	+0.0713	1.38	18 2.8	1.2971	14 26.0	−5.12
	12	+0.009	.9315	.0728	1.37	18 12.7	.2977	14 22.2	5.01
	13	.018	.9318	.0743	1.37	18 22.9	.2983	14 18.4	4.90
	14	.027	.9319	.0757	1.37	18 33.2	.2989	14 14.7	4.79
	15	.036	.9318	.0771	1.36	18 43.5	.2994	14 10.9	4.67
	16	.046	.9316	.0785	1.37	18 53.8	.3000	14 7.2	4.56
	17	.055	.9312	.0799	1.38	19 4.1	.3006	14 3.5	4.45
	18	.065	.9306	.0813	1.39	19 14.3	.3011	13 59.8	4.34
	19	.074	.9299	.0827	1.40	19 24.4	.3017	13 56.1	4.22
	20	.084	.9291	.0840	1.42	19 34.4	.3022	13 52.4	4.10
	21	+0.094	−0.9281	+0.0853	1.44	19 44.3	1.3027	13 48.8	−3.98
	22	.104	.9270	.0866	1.46	19 54.0	.3032	13 45.1	3.86
	23	.114	.9257	.0878	1.49	20 3.3	.3037	13 41.5	3.74
	24	.124	.9243	.0890	1.52	20 12.2	.3042	13 37.8	3.62
	25	.134	.9227	.0902	1.55	20 20.8	.3047	13 34.2	3.50
	26	.144	.9210	.0913	1.58	20 29.1	.3051	13 30.6	3.37
	27	.154	.9192	.0924	1.62	20 37.0	.3056	13 27.0	3.25
	28	.164	.9172	.0935	1.66	20 44.6	.3060	13 23.4	3.12
	29	.175	.9151	.0945	1.70	20 51.9	.3064	13 19.8	3.00
	30	.185	.9129	.0955	1.75	20 58.8	.3068	13 16.2	2.87
	31	+0.195	−0.9106	+0.0965	1.79	21 5.3	1.3072	13 12.6	−2.74
Juni	1	.206	.9082	.0974	1.84	21 11.4	.3075	13 9.0	2.61
	2	.217	.9057	.0983	1.89	21 17.3	.3079	13 5.5	2.48
	3	.227	.9032	.0991	1.94	21 22.8	.3082	13 1.9	2.35
	4	.238	.9005	.0999	1.99	21 28.0	.3085	12 58.3	2.22
	5	.248	.8978	.1007	2.05	21 32.9	.3088	12 54.8	2.09
	6	.259	.8950	.1014	2.10	21 37.5	.3091	12 51.2	1.96
	7	.270	.8921	.1021	2.16	21 41.8	.3094	12 47.7	1.83
	8	.281	.8892	.1027	2.22	21 45.9	.3096	12 44.2	1.69
	9	.292	.8862	.1033	2.28	21 49.7	.3098	12 40.6	1.56
	10	+0.303	−0.8831	+0.1038	2.34	21 53.3	1.3101	12 37.1	−1.43
	11	.314	.8800	.1043	2.40	21 56.7	.3103	12 33.6	1.29
	12	.324	.8769	.1047	2.47	21 59.8	.3104	12 30.1	1.16
	13	.335	.8737	.1051	2.53	22 2.8	.3106	12 26.6	1.03
	14	.346	.8705	.1054	2.60	22 5.6	.3107	12 23.0	0.89
	15	.357	.8672	.1057	2.66	22 8.2	.3108	12 19.5	0.76
	16	.368	.8639	.1059	2.73	22 10.6	.3109	12 16.0	0.62
	17	.379	.8606	.1061	2.79	22 12.9	.3110	12 12.5	0.49
	18	.391	.8572	.1063	2.86	22 15.0	.3110	12 9.0	0.35
	19	.402	.8538	.1064	2.93	22 17.0	.3111	12 5.5	0.21

1853

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	20	+0.8413	−0.8504	+0.1065	3.″00	$22^h18^m.9$	1.3111	$12^h\ 2^m.0$	−0.″08
	21	.424	.8470	.1065	3.07	22 20.7	.3111	11 58.5	+0.06
	22	.435	.8436	.1064	3.14	22 22.3	.3111	11 55.0	0.19
	23	.446	.8401	.1063	3.21	22 23.8	.3111	11 51.5	0.33
	24	.457	.8366	.1062	3.28	22 25.2	.3110	11 48.0	0.46
	25	.468	.8331	.1060	3.35	22 26.5	.3109	11 44.5	0.60
	26	.479	.8296	.1058	3.42	22 27.7	.3108	11 41.0	0.73
	27	.490	.8261	.1055	3.49	22 28.8	.3107	11 37.5	0.87
	28	.501	.8226	.1052	3.56	22 29.8	.3106	11 34.0	1.00
	29	.512	.8190	.1048	3.63	22 30.8	.3104	11 30.5	1.14
	30	+0.523	−0.8155	+0.1044	3.70	22 31.7	1.3103	11 27.0	+1.27
Juli	1	.534	.8119	.1039	3.77	22 32.6	.3101	11 23.5	1.41
	2	.545	.8083	.1034	3.85	22 33.4	.3099	11 20.0	1.54
	3	.555	.8047	.1028	3.92	22 34.1	.3097	11 16.5	1.67
	4	.566	.8011	.1022	3.99	22 34.7	.3094	11 12.9	1.81
	5	.577	.7975	.1015	4.06	22 35.3	.3092	11 9.4	1.94
	6	.588	.7939	.1008	4.13	22 35.8	.3089	11 5.9	2.07
	7	.599	.7904	.1001	4.20	22 36.3	.3086	11 2.3	2.20
	8	.609	.7868	.0993	4.27	22 36.7	.3083	10 58.8	2.33
	9	.620	.7833	.0985	4.34	22 37.1	.3080	10 55.2	2.46
	10	+0.630	−0.7797	+0.0976	4.42	22 37.5	1.3076	10 51.7	+2.59
	11	.641	.7762	.0967	4.49	22 37.8	.3073	10 48.1	2.72
	12	.651	.7726	.0958	4.56	22 38.0	.3069	10 44.6	2.84
	13	.662	.7691	.0948	4.63	22 38.2	.3065	10 41.0	2.97
	14	.672	.7656	.0938	4.70	22 38.4	.3061	10 37.4	3.09
	15	.683	.7621	.0927	4.77	22 38.6	.3057	10 33.8	3.22
	16	.693	.7586	.0916	4.84	22 38.7	.3052	10 30.2	3.34
	17	.703	.7551	.0905	4.91	22 38.8	.3048	10 26.6	3.47
	18	.713	.7516	.0893	4.98	22 38.9	.3043	10 23.0	3.59
	19	.723	.7482	.0881	5.05	22 39.0	.3039	10 19.4	3.71
	20	+0.733	−0.7447	+0.0869	5.12	22 39.0	1.3034	10 15.8	+3.83
	21	.743	.7413	.0857	5.19	22 39.0	.3029	10 12.2	3.95
	22	.753	.7379	.0844	5.25	22 39.0	.3024	10 8.5	4.07
	23	.763	.7345	.0831	5.32	22 39.0	.3018	10 4.8	4.19
	24	.772	.7311	.0818	5.39	22 38.9	.3013	10 1.2	4.30
	25	.782	.7278	.0804	5.46	22 38.9	.3007	9 57.5	4.42
	26	.792	.7244	.0790	5.52	22 38.8	.3002	9 53.8	4.53
	27	.801	.7211	.0776	5.59	22 38.7	.2996	9 50.1	4.64
	28	.810	.7178	.0762	5.66	22 38.6	.2991	9 46.4	4.75
	29	.820	.7145	.0748	5.72	22 38.5	.2985	9 42.7	4.86
	30	+0.829	−0.7112	+0.0734	5.79	22 38.3	1.2979	9 39.0	+4.97
	31	.838	.7080	.0719	5.86	22 38.2	.2973	9 35.2	5.08
August	1	.847	.7047	.0704	5.92	22 38.0	.2967	9 31.5	5.19
	2	.856	.7015	.0689	5.98	22 37.9	.2961	9 27.7	5.29
	3	.865	.6983	.0674	6.05	22 37.7	.2955	9 24.0	5.39
	4	.874	.6952	.0659	6.11	22 37.6	.2949	9 20.2	5.49
	5	.882	.6921	.0643	6.17	22 37.4	.2943	9 16.4	5.59
	6	.891	.6890	.0628	6.23	22 37.2	.2936	9 12.6	5.69
	7	.900	.6859	.0613	6.30	22 37.0	.2930	9 8.8	5.79
	8	.908	.6829	.0598	6.36	22 36.8	.2924	9 4.9	5.88

1853

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
August 9	+0.916	−0.6798	+0.0582	6".42	$22^h36^m.6$	1.2918	$9^h\ 1^m.1$	+5".98
10	.925	.6768	.0567	6.48	22 36.5	.2911	8 57.2	6.07
11	.933	.6738	.0552	6.54	22 36.3	.2905	8 53.4	6.16
12	.941	.6709	.0537	6.60	22 36.1	.2899	8 49.5	6.25
13	.949	.6680	.0522	6.66	22 35.8	.2892	8 45.6	6.34
14	.957	.6652	.0507	6.71	22 35.6	.2886	8 41.7	6.42
15	.965	.6623	.0492	6.77	22 35.4	.2880	8 37.8	6.51
16	.973	.6595	.0477	6.83	22 35.2	.2874	8 33.8	6.59
17	.981	.6567	.0462	6.88	22 35.1	.2868	8 29.9	6.67
18	.988	.6539	.0448	6.94	22 34.9	.2862	8 25.9	6.74
19	+0.996	−0.6511	+0.0433	7.00	22 34.7	1.2856	8 22.0	+6.82
20	1.003	.6484	.0419	7.05	22 34.5	.2850	8 18.0	6.89
21	.011	.6457	.0405	7.10	22 34.3	.2844	8 14.0	6.97
22	.018	.6430	.0391	7.16	22 34.2	.2838	8 10.0	7.04
23	.025	.6404	.0377	7.21	22 34.0	.2833	8 6.0	7.10
24	.032	.6378	.0364	7.26	22 33.9	.2827	8 1.9	7.17
25	.039	.6352	.0351	7.32	22 33.7	.2821	7 57.9	7.24
26	.047	.6326	.0338	7.37	22 33.6	.2816	7 53.8	7.30
27	.054	.6301	.0325	7.42	22 33.5	.2811	7 49.7	7.36
28	.060	.6276	.0313	7.47	22 33.4	.2806	7 45.7	7.42
29	+1.067	−0.6251	+0.0301	7.52	22 33.3	1.2801	7 41.6	+7.47
30	.074	.6227	.0290	7.56	22 33.1	.2796	7 37.5	7.52
31	.081	.6203	.0279	7.61	22 33.0	.2791	7 33.4	7.58
Septbr. 1	.087	.6179	.0268	7.66	22 33.0	.2787	7 29.2	7.62
2	.094	.6155	.0258	7.71	22 32.9	.2782	7 25.1	7.67
3	.101	.6131	.0248	7.76	22 32.8	.2778	7 21.0	7.72
4	.107	.6108	.0238	7.80	22 32.8	.2774	7 16.8	7.76
5	.113	.6085	.0229	7.85	22 32.7	.2770	7 12.6	7.80
6	.120	.6062	.0220	7.89	22 32.7	.2766	7 8.5	7.84
7	.126	.6040	.0212	7.94	22 32.6	.2763	7 4.3	7.88
8	+1.133	−0.6018	+0.0204	7.98	22 32.6	1.2760	7 0.1	+7.91
9	.139	.5996	.0197	8.03	22 32.6	.2757	6 55.9	7.94
10	.145	.5974	.0190	8.07	22 32.6	.2754	6 51.7	7.97
11	.151	.5953	.0184	8.11	22 32.7	.2751	6 47.5	8.00
12	.157	.5932	.0178	8.16	22 32.7	.2748	6 43.3	8.03
13	.164	.5911	.0173	8.20	22 32.8	.2746	6 39.0	8.05
14	.170	.5890	.0168	8.24	22 32.8	.2744	6 34.8	8.07
15	.176	.5869	.0164	8.28	22 32.9	.2742	6 30.6	8.09
16	.182	.5848	.0161	8.32	22 33.0	.2741	6 26.3	8.10
17	.188	.5828	.0158	8.37	22 33.1	.2740	6 22.1	8.12
18	+1.194	−0.5808	+0.0156	8.41	22 33.2	1.2739	6 17.8	+8.13
19	.200	.5788	.0154	8.45	22 33.4	.2738	6 13.5	8.14
20	.206	.5768	.0152	8.49	22 33.5	.2737	6 9.3	8.14
21	.212	.5748	.0151	8.53	22 33.7	.2737	6 5.0	8.15
22	.218	.5728	.0150	8.57	22 33.8	.2736	6 0.7	8.15
23	.224	.5709	.0150	8.60	22 34.0	.2736	5 56.5	8.15
24	.230	.5689	.0151	8.64	22 34.2	.2737	5 52.2	8.14
25	.236	.5670	.0152	8.68	22 34.5	.2737	5 47.9	8.14
26	.242	.5650	.0154	8.72	22 34.7	.2738	5 43.6	8.13
27	.248	.5631	.0156	8.76	22 35.0	.2739	5 39.3	8.12

1853

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	28	+1.s254	−0.5611	+0.0159	8.″80	22h35.m2	1.2740	5h35.m0	+8.″11
	29	.260	.5592	.0163	8.84	22 35.5	.2742	5 30.8	8.09
	30	.266	.5572	.0167	8.88	22 35.8	.2744	5 26.5	8.08
Oktbr.	1	.273	.5553	.0172	8.92	22 36.1	.2746	5 22.2	8.06
	2	.279	.5534	.0177	8.95	22 36.4	.2748	5 17.9	8.03
	3	.285	.5515	.0183	8.99	22 36.8	.2750	5 13.7	8.01
	4	.291	.5496	.0189	9.03	22 37.1	.2753	5 9.4	7.98
	5	.297	.5477	.0196	9.07	22 37.5	.2756	5 5.1	7.95
	6	.304	.5458	.0203	9.11	22 37.8	.2759	5 0.9	7.92
	7	.310	.5439	.0211	9.15	22 38.2	.2762	4 56.6	7.88
	8	+1.316	−0.5420	+0.0219	9.18	22 38.6	1.2766	4 52.4	+7.85
	9	.323	.5400	.0228	9.22	22 39.1	.2770	4 48.1	7.81
	10	.329	.5381	.0237	9.26	22 39.5	.2773	4 43.8	7.77
	11	.336	.5361	.0247	9.30	22 39.9	.2778	4 39.6	7.73
	12	.343	.5342	.0257	9.34	22 40.4	.2782	4 35.4	7.68
	13	.349	.5322	.0268	9.38	22 40.9	.2786	4 31.1	7.63
	14	.356	.5302	.0279	9.42	22 41.3	.2791	4 26.9	7.58
	15	.363	.5282	.0290	9.46	22 41.8	.2796	4 22.7	7.53
	16	.370	.5262	.0302	9.50	22 42.3	.2801	4 18.5	7.47
	17	.377	.5242	.0314	9.54	22 42.8	.2806	4 14.3	7.41
	18	+1.384	−0.5222	+0.0326	9.58	22 43.3	1.2811	4 10.1	+7.35
	19	.391	.5201	.0339	9.62	22 43.8	.2817	4 5.9	7.29
	20	.398	.5180	.0352	9.66	22 44.4	.2822	4 1.7	7.23
	21	.405	.5159	.0366	9.71	22 44.9	.2828	3 57.6	7.16
	22	.413	.5138	.0380	9.75	22 45.5	.2834	3 53.4	7.09
	23	.420	.5116	.0394	9.79	22 46.0	.2839	3 49.3	7.02
	24	.428	.5094	.0408	9.84	22 46.6	.2845	3 45.1	6.95
	25	.435	.5072	.0422	9.88	22 47.2	.2851	3 41.0	6.87
	26	.443	.5050	.0437	9.93	22 47.8	.2858	3 36.8	6.79
	27	.451	.5027	.0452	9.97	22 48.3	.2864	3 32.7	6.71
	28	+1.459	−0.5004	+0.0467	10.02	22 48.9	1.2870	3 28.6	+6.63
	29	.466	.4981	.0483	10.06	22 49.5	.2876	3 24.5	6.55
	30	.474	.4958	.0498	10.11	22 50.1	.2883	3 20.4	6.47
	31	.483	.4934	.0514	10.16	22 50.7	.2889	3 16.4	6.38
Novbr.	1	.491	.4910	.0530	10.21	22 51.3	.2896	3 12.3	6.29
	2	.499	.4886	.0546	10.25	22 51.9	.2902	3 8.2	6.20
	3	.508	.4861	.0562	10.30	22 52.5	.2909	3 4.2	6.10
	4	.516	.4836	.0578	10.35	22 53.1	.2916	3 0.1	6.01
	5	.525	.4810	.0594	10.41	22 53.7	.2922	2 56.1	5.91
	6	.534	.4784	.0610	10.46	22 54.3	.2929	2 52.1	5.81
	7	+1.543	−0.4758	+0.0626	10.51	22 54.9	1.2935	2 48.1	+5.71
	8	.551	.4732	.0642	10.56	22 55.5	.2942	2 44.1	5.61
	9	.560	.4706	.0658	10.62	22 56.0	.2948	2 40.1	5.50
	10	.570	.4679	.0674	10.67	22 56.6	.2955	2 36.2	5.40
	11	.579	.4652	.0690	10.72	22 57.2	.2961	2 32.2	5.29
	12	.588	.4624	.0705	10.78	22 57.8	.2967	2 28.2	5.18
	13	.597	.4595	.0720	10.84	22 58.4	.2974	2 24.3	5.07
	14	.607	.4567	.0735	10.89	22 58.9	.2980	2 20.4	4.95
	15	.617	.4538	.0750	10.95	22 59.5	.2986	2 16.4	4.84
	16	.626	.4509	.0765	11.01	23 0.1	.2992	2 12.5	4.72

1853

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	17	+1.636	−0.4480	+0.0780	11.07	23^h 0.6	1.2998	2^h 8.6	+4.61
	18	.646	.4450	.0795	11.13	23 1.1	.3004	2 4.7	4.49
	19	.656	.4420	.0809	11.19	23 1.7	.3010	2 0.8	4.37
	20	.666	.4389	.0823	11.25	23 2.2	.3015	1 56.9	4.24
	21	.676	.4358	.0837	11.31	23 2.7	.3021	1 53.1	4.12
	22	.686	.4327	.0851	11.38	23 3.2	.3027	1 49.2	3.99
	23	.697	.4295	.0865	11.44	23 3.7	.3032	1 45.4	3.87
	24	.707	.4263	.0878	11.50	23 4.2	.3037	1 41.5	3.74
	25	.718	.4231	.0891	11.57	23 4.7	.3042	1 37.7	3.61
	26	.728	.4198	.0903	11.63	23 5.1	.3047	1 33.9	3.48
	27	+1.739	−0.4165	+0.0915	11.70	23 5.6	1.3052	1 30.0	+3.35
	28	.750	.4132	.0927	11.77	23 6.0	.3057	1 26.2	3.22
	29	.761	.4098	.0938	11.83	23 6.5	.3061	1 22.4	3.09
	30	.771	.4064	.0949	11.90	23 6.9	.3065	1 18.6	2.95
Dezbr.	1	.782	.4030	.0959	11.97	23 7.3	.3069	1 14.8	2.82
	2	.793	.3996	.0969	12.04	23 7.7	.3073	1 11.0	2.68
	3	.804	.3962	.0979	12.11	23 8.1	.3077	1 7.2	2.55
	4	.816	.3927	.0988	12.18	23 8.5	.3081	1 3.4	2.41
	5	.827	.3892	.0996	12.25	23 8.8	.3084	0 59.6	2.27
	6	.838	.3856	.1004	12.32	23 9.2	.3087	0 55.9	2.13
	7	+1.849	−0.3820	+0.1012	12.39	23 9.5	1.3090	0 52.1	+1.99
	8	.861	.3784	.1019	12.46	23 9.8	.3093	0 48.3	1.85
	9	.872	.3748	.1026	12.54	23 10.1	.3096	0 44.6	1.71
	10	.884	.3711	.1032	12.61	23 10.4	.3098	0 40.8	1.57
	11	.895	.3675	.1037	12.68	23 10.7	.3100	0 37.0	1.43
	12	.907	.3638	.1042	12.76	23 11.0	.3102	0 33.3	1.28
	13	.918	.3601	.1047	12.83	23 11.2	.3104	0 29.6	1.14
	14	.930	.3564	.1051	12.90	23 11.4	.3106	0 25.8	1.00
	15	.941	.3527	.1055	12.98	23 11.7	.3107	0 22.1	0.86
	16	.953	.3489	.1058	13.06	23 11.9	.3109	0 18.4	0.71
	17	+1.965	−0.3452	+0.1061	13.13	23 12.1	1.3110	0 14.6	+0.57
	18	.976	.3414	.1063	13.21	23 12.2	.3110	0 10.9	0.42
	19	1.988	.3376	.1064	13.28	23 12.4	.3111	0 7.1	0.28
	20	2.000	.3338	.1065	13.36	23 12.6	.3111	0 3.4	+0.13
	21	.011	.3300	.1065	13.43	23 12.7	.3111	23 59.7	−0.01
	22	.023	.3262	.1064	13.51	23 12.8	.3111	23 55.9	0.16
	23	.035	.3224	.1063	13.59	23 12.9	.3111	23 52.2	0.30
	24	.046	.3186	.1062	13.66	23 13.0	.3110	23 48.4	0.45
	25	.058	.3147	.1060	13.74	23 13.1	.3109	23 44.7	0.59
	26	.070	.3109	.1058	13.82	23 13.2	.3108	23 40.9	0.74
	27	+2.082	−0.3071	+0.1055	13.89	23 13.3	1.3107	23 37.2	−0.88
	28	.093	.3033	.1052	13.97	23 13.3	.3106	23 33.4	1.02
	29	.105	.2994	.1048	14.05	23 13.4	.3104	23 29.7	1.17
	30	.116	.2956	.1043	14.12	23 13.4	.3102	23 25.9	1.31
	31	.128	.2918	.1038	14.20	23 13.4	.3100	23 22.2	1.45

1854

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	$-0^s.932$	−0.6651	+0.1031	6″.72	$13^h41^m.6$	1.3098	$23^h18^m.4$	−1″.60
	2	.920	.6681	.1025	6.66	13 43.2	.3096	23 14.7	1.74
	3	.909	.6711	.1018	6.60	13 44.8	.3093	23 10.9	1.88
	4	.898	.6740	.1011	6.54	13 46.5	.3090	23 7.1	2.02
	5	.886	.6769	.1003	6.48	13 48.3	.3087	23 3.3	2.16
	6	.875	.6797	.0995	6.42	13 50.1	.3084	22 59.5	2.30
	7	.864	.6825	.0986	6.37	13 51.9	.3080	22 55.8	2.44
	8	.853	.6852	.0977	6.31	13 53.7	.3076	22 52.0	2.58
	9	.842	.6879	.0967	6.26	13 55.6	.3073	22 48.2	2.71
	10	.831	.6906	.0957	6.20	13 57.6	.3069	22 44.3	2.85
	11	−0.820	−0.6932	+0.0947	6.15	13 59.6	1.3065	22 40.5	−2.99
	12	.809	.6957	.0936	6.10	14 1.6	.3060	22 36.7	3.12
	13	.798	.6982	.0925	6.05	14 3.7	.3056	22 32.9	3.25
	14	.787	.7006	.0913	6.00	14 5.8	.3051	22 29.0	3.39
	15	.776	.7030	.0901	5.95	14 7.9	.3046	22 25.2	3.52
	16	.765	.7053	.0888	5.91	14 10.1	.3041	22 21.3	3.65
	17	.755	.7076	.0875	5.86	14 12.4	.3036	22 17.5	3.78
	18	.744	.7098	.0862	5.82	14 14.6	.3031	22 13.6	3.90
	19	.734	.7119	.0848	5.78	14 16.9	.3025	22 9.7	4.03
	20	.724	.7140	.0834	5.74	14 19.3	.3020	22 5.8	4.15
	21	−0.713	−0.7160	+0.0820	5.70	14 21.6	1.3014	22 1.9	−4.28
	22	.703	.7179	.0805	5.66	14 24.0	.3008	21 58.0	4.40
	23	.693	.7198	.0791	5.62	14 26.5	.3002	21 54.1	4.52
	24	.683	.7216	.0776	5.58	14 28.9	.2996	21 50.2	4.64
	25	.674	.7233	.0761	5.55	14 31.4	.2990	21 46.3	4.76
	26	.664	.7250	.0746	5.51	14 33.9	.2984	21 42.3	4.88
	27	.654	.7266	.0731	5.48	14 36.4	.2978	21 38.4	4.99
	28	.644	.7281	.0715	5.45	14 39.0	.2972	21 34.4	5.10
	29	.635	.7296	.0699	5.42	14 41.5	.2965	21 30.4	5.22
	30	.625	.7311	.0683	5.39	14 44.1	.2959	21 26.4	5.33
	31	−0.616	−0.7325	+0.0667	5.36	14 46.7	1.2952	21 22.4	−5.43
Februar	1	.607	.7338	.0651	5.34	14 49.3	.2946	21 18.4	5.54
	2	.598	.7351	.0635	5.31	14 51.9	.2939	21 14.4	5.65
	3	.589	.7363	.0619	5.29	14 54.5	.2933	21 10.4	5.75
	4	.580	.7374	.0603	5.27	14 57.1	.2926	21 6.3	5.85
	5	.571	.7385	.0587	5.24	14 59.7	.2919	21 2.3	5.95
	6	.563	.7395	.0571	5.22	15 2.3	.2913	20 58.2	6.05
	7	.554	.7405	.0555	5.20	15 4.9	.2906	20 54.1	6.14
	8	.546	.7414	.0539	5.18	15 7.5	.2900	20 50.0	6.24
	9	.537	.7423	.0523	5.17	15 10.1	.2893	20 45.9	6.33
	10	−0.529	−0.7431	+0.0507	5.15	15 12.6	1.2887	20 41.8	−6.42
	11	.521	.7439	.0492	5.14	15 15.2	.2880	20 37.7	6.50
	12	.513	.7446	.0476	5.12	15 17.7	.2874	20 33.6	6.59
	13	.505	.7453	.0461	5.11	15 20.3	.2867	20 29.4	6.67
	14	.497	.7460	.0446	5.09	15 22.8	.2861	20 25.3	6.75
	15	.489	.7466	.0431	5.08	15 25.4	.2855	20 21.1	6.83
	16	.481	.7472	.0416	5.07	15 27.9	.2848	20 16.9	6.91
	17	.473	.7477	.0401	5.06	15 30.4	.2842	20 12.8	6.99
	18	.466	.7482	.0386	5.05	15 32.9	.2836	20 8.6	7.06
	19	.458	.7486	.0372	5.04	15 35.3	.2831	20 4.4	7.13

1854

12h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 20	−0.451	−0.7491	+0.0358	5″.03	15h 37m.7	1.2825	20h 0m.2	−7″.20
21	.443	.7495	.0345	5.02	15 40.1	.2819	19 55.9	7.26
22	.436	.7499	.0332	5.02	15 42.5	.2814	19 51.7	7.33
23	.429	.7503	.0319	5.01	15 44.9	.2809	19 47.5	7.39
24	.422	.7507	.0306	5.00	15 47.2	.2804	19 43.2	7.45
25	.415	.7510	.0294	4.99	15 49.5	.2798	19 39.0	7.50
26	.408	.7513	.0282	4.99	15 51.8	.2793	19 34.7	7.56
27	.401	.7516	.0271	4.98	15 54.1	.2788	19 30.4	7.61
28	.394	.7519	.0260	4.98	15 56.4	.2783	19 26.1	7.66
März 1	.387	.7521	.0250	4.97	15 58.6	.2779	19 21.9	7.71
2	−0.381	−0.7524	+0.0240	4.96	16 0.8	1.2775	19 17.6	−7.75
3	.374	.7526	.0231	4.96	16 3.0	.2771	19 13.3	7.80
4	.367	.7529	.0222	4.95	16 5.1	.2767	19 9.0	7.84
5	.361	.7531	.0214	4.95	16 7.3	.2763	19 4.7	7.87
6	.354	.7534	.0206	4.94	16 9.4	.2760	19 0.4	7.91
7	.348	.7536	.0199	4.94	16 11.4	.2757	18 56.1	7.94
8	.341	.7539	.0192	4.93	16 13.5	.2754	18 51.7	7.97
9	.335	.7541	.0185	4.93	16 15.6	.2751	18 47.4	8.00
10	.329	.7543	.0179	4.92	16 17.6	.2748	18 43.1	8.03
11	.322	.7546	.0173	4.92	16 19.6	.2746	18 38.8	8.05
12	−0.316	−0.7548	+0.0168	4.91	16 21.6	1.2744	18 34.4	−8.07
13	.310	.7551	.0164	4.91	16 23.6	.2742	18 30.1	8.09
14	.303	.7553	.0160	4.90	16 25.6	.2741	18 25.8	8.11
15	.297	.7556	.0157	4.90	16 27.5	.2739	18 21.4	8.12
16	.291	.7559	.0155	4.89	16 29.5	.2738	18 17.1	8.13
17	.285	.7562	.0153	4.89	16 31.4	.2737	18 12.8	8.14
18	.279	.7565	.0152	4.88	16 33.3	.2737	18 8.5	8.14
19	.272	.7569	.0151	4.87	16 35.2	.2737	18 4.1	8.15
20	.266	.7572	.0151	4.87	16 37.1	.2736	17 59.8	8.15
21	.260	.7576	.0151	4.86	16 39.0	.2737	17 55.5	8.15
22	−0.254	−0.7580	+0.0152	4.85	16 40.9	1.2737	17 51.2	−8.14
23	.248	.7584	.0154	4.85	16 42.8	.2738	17 46.8	8.14
24	.242	.7588	.0156	4.84	16 44.7	.2739	17 42.5	8.13
25	.235	.7592	.0158	4.83	16 46.6	.2740	17 38.2	8.12
26	.229	.7596	.0161	4.82	16 48.5	.2741	17 33.9	8.10
27	.223	.7601	.0164	4.81	16 50.4	.2743	17 29.6	8.09
28	.217	.7606	.0168	4.80	16 52.3	.2744	17 25.3	8.07
29	.210	.7611	.0173	4.79	16 54.2	.2746	17 21.0	8.05
30	.204	.7616	.0178	4.78	16 56.1	.2748	17 16.8	8.03
31	.198	.7621	.0184	4.77	16 58.0	.2751	17 12.5	8.00
April 1	−0.191	−0.7626	+0.0190	4.76	17 0.0	1.2754	17 8.2	−7.97
2	.185	.7631	.0197	4.75	17 1.9	.2757	17 4.0	7.94
3	.179	.7637	.0205	4.74	17 3.9	.2760	16 59.7	7.91
4	.172	.7643	.0213	4.73	17 5.9	.2763	16 55.5	7.88
5	.166	.7649	.0221	4.71	17 7.9	.2767	16 51.2	7.84
6	.159	.7655	.0230	4.70	17 9.9	.2770	16 47.0	7.80
7	.152	.7661	.0239	4.69	17 11.9	.2774	16 42.8	7.76
8	.146	.7667	.0249	4.68	17 13.9	.2778	16 38.6	7.71
9	.139	.7673	.0259	4.66	17 16.0	.2783	16 34.4	7.67
10	.132	.7680	.0270	4.65	17 18.1	.2787	16 30.2	7.62

1854

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	11	$-0^s.125$	−0.7686	+0.0281	4″.64	$17^h20^m.2$	1.2792	$16^h26^m.1$	−7″.57
	12	.118	.7693	.0292	4.63	17 22.3	.2797	16 21.9	7.52
	13	.111	.7699	.0303	4.61	17 24.5	.2801	16 17.8	7.46
	14	.104	.7706	.0315	4.60	17 26.8	.2806	16 13.6	7.40
	15	.097	.7712	.0327	4.59	17 29.0	.2812	16 9.5	7.34
	16	.090	.7719	.0340	4.57	17 31.3	.2817	16 5.4	7.28
	17	.083	.7726	.0353	4.56	17 33.6	.2822	16 1.3	7.22
	18	.075	.7733	.0366	4.55	17 36.0	.2828	15 57.2	7.16
	19	.068	.7740	.0379	4.53	17 38.4	.2833	15 53.1	7.09
	20	.060	.7746	.0393	4.52	17 40.8	.2839	15 49.1	7.02
	21	−0.053	−0.7753	+0.0407	4.51	17 43.3	1.2845	15 45.0	−6.95
	22	.045	.7759	.0421	4.49	17 45.8	.2851	15 41.0	6.88
	23	.038	.7765	.0436	4.48	17 48.4	.2857	15 37.0	6.80
	24	.030	.7771	.0451	4.47	17 51.0	.2863	15 33.0	6.72
	25	.022	.7777	.0466	4.46	17 53.6	.2869	15 29.0	6.64
	26	.014	.7782	.0481	4.45	17 56.2	.2876	15 25.0	6.56
	27	−0.006	.7787	.0496	4.44	17 58.9	.2882	15 21.0	6.48
	28	+0.002	.7792	.0511	4.43	18 1.7	.2888	15 17.1	6.39
	29	.010	.7797	.0526	4.42	18 4.5	.2894	15 13.1	6.31
	30	.019	.7802	.0541	4.41	18 7.3	.2901	15 9.2	6.22
Mai	1	+0.027	−0.7806	+0.0556	4.40	18 10.2	1.2907	15 5.3	−6.13
	2	.036	.7810	.0572	4.39	18 13.1	.2913	15 1.4	6.04
	3	.044	.7814	.0587	4.38	18 16.1	.2920	14 57.5	5.95
	4	.053	.7817	.0603	4.38	18 19.1	.2926	14 53.6	5.85
	5	.062	.7820	.0619	4.37	18 22.1	.2932	14 49.8	5.75
	6	.070	.7823	.0634	4.37	18 25.2	.2939	14 45.9	5.65
	7	.079	.7825	.0649	4.36	18 28.3	.2945	14 42.1	5.55
	8	.088	.7827	.0664	4.36	18 31.4	.2951	14 38.3	5.45
	9	.097	.7828	.0680	4.35	18 34.6	.2957	14 34.5	5.35
	10	.107	.7829	.0695	4.35	18 37.8	.2963	14 30.7	5.25
	11	+0.116	−0.7829	+0.0710	4.35	18 41.0	1.2969	14 26.9	−5.14
	12	.125	.7829	.0725	4.35	18 44.3	.2975	14 23.1	5.03
	13	.135	.7828	.0740	4.35	18 47.6	.2981	14 19.3	4.92
	14	.144	.7827	.0754	4.36	18 50.9	.2987	14 15.6	4.81
	15	.154	.7825	.0768	4.36	18 54.2	.2993	14 11.8	4.70
	16	.163	.7822	.0782	4.37	18 57.6	.2999	14 8.1	4.59
	17	.173	.7818	.0796	4.37	19 0.9	.3004	14 4.4	4.48
	18	.183	.7814	.0810	4.38	19 4.3	.3010	14 0.7	4.36
	19	.193	.7809	.0824	4.39	19 7.6	.3015	13 57.0	4.25
	20	.203	.7803	.0837	4.40	19 11.0	.3021	13 53.3	4.13
	21	+0.213	−0.7797	+0.0850	4.42	19 14.4	1.3026	13 49.7	−4.01
	22	.223	.7790	.0863	4.43	19 17.8	.3031	13 46.0	3.89
	23	.233	.7782	.0875	4.45	19 21.2	.3036	13 42.3	3.77
	24	.244	.7774	.0887	4.46	19 24.5	.3041	13 38.7	3.65
	25	.254	.7765	.0899	4.48	19 27.9	.3046	13 35.1	3.53
	26	.265	.7756	.0910	4.50	19 31.2	.3050	13 31.5	3.40
	27	.275	.7746	.0921	4.52	19 34.5	.3055	13 27.9	3.28
	28	.286	.7735	.0932	4.54	19 37.8	.3059	13 24.2	3.15
	29	.296	.7723	.0943	4.57	19 41.1	.3063	13 20.6	3.03
	30	.307	.7710	.0953	4.59	19 44.4	.3067	13 17.0	2.90

1854

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	31	+0.317	−0.7696	+0.0963	4.″62	$19^h47^m.6$	1.3071	$13^h13^m.5$	−2.″77
Juni	1	.328	.7682	.0972	4.65	19 50.8	.3075	13 9.9	2.64
	2	.339	.7667	.0981	4.68	19 54.0	.3078	13 6.3	2.51
	3	.350	.7652	.0989	4.71	19 57.1	.3081	13 2.8	2.38
	4	.361	.7636	.0997	4.74	20 0.1	.3085	12 59.2	2.25
	5	.372	.7619	.1005	4.77	20 3.2	.3088	12 55.7	2.12
	6	.383	.7601	.1012	4.81	20 6.2	.3090	12 52.1	1.99
	7	.394	.7582	.1019	4.85	20 9.1	.3093	12 48.6	1.86
	8	.405	.7563	.1025	4.89	20 12.0	.3096	12 45.0	1.73
	9	.416	.7543	.1031	4.93	20 14.8	.3098	12 41.5	1.59
	10	+0.427	−0.7522	+0.1036	4.97	20 17.6	1.3100	12 38.0	−1.46
	11	.439	.7501	.1041	5.01	20 20.3	.3102	12 34.4	1.33
	12	.450	.7479	.1046	5.05	20 23.0	.3104	12 30.9	1.19
	13	.461	.7456	.1050	5.10	20 25.6	.3105	12 27.4	1.06
	14	.472	.7433	.1053	5.15	20 28.2	.3107	12 23.9	0.92
	15	.484	.7410	.1056	5.19	20 30.7	.3108	12 20.4	0.79
	16	.495	.7386	.1059	5.24	20 33.1	.3109	12 16.9	0.65
	17	.506	.7361	.1061	5.29	20 35.5	.3110	12 13.4	0.52
	18	.518	.7336	.1063	5.34	20 37.8	.3110	12 9.9	0.38
	19	.529	.7310	.1064	5.39	20 40.1	.3111	12 6.4	0.25
	20	+0.541	−0.7284	+0.1065	5.45	20 42.3	1.3111	12 2.9	−0.11
	21	.552	.7257	.1065	5.50	20 44.5	.3111	11 59.4	+0.02
	22	.563	.7230	.1065	5.55	20 46.6	.3111	11 55.9	0.16
	23	.575	.7202	.1064	5.61	20 48.6	.3111	11 52.4	0.29
	24	.586	.7174	.1063	5.67	20 50.6	.3110	11 48.9	0.43
	25	.597	.7145	.1061	5.72	20 52.5	.3110	11 45.4	0.57
	26	.609	.7116	.1059	5.78	20 54.4	.3109	11 41.9	0.70
	27	.620	.7087	.1056	5.84	20 56.2	.3108	11 38.4	0.84
	28	.631	.7057	.1053	5.90	20 57.9	.3106	11 34.9	0.97
	29	.642	.7027	.1049	5.96	20 59.6	.3105	11 31.4	1.11
	30	+0.654	−0.6997	+0.1045	6.02	21 1.3	1.3103	11 27.8	+1.24
Juli	1	.665	.6966	.1040	6.08	21 2.9	.3101	11 24.3	1.37
	2	.676	.6935	.1035	6.14	21 4.5	.3099	11 20.8	1.51
	3	.687	.6904	.1029	6.21	21 6.0	.3097	11 17.3	1.64
	4	.698	.6873	.1023	6.27	21 7.4	.3095	11 13.8	1.77
	5	.710	.6841	.1017	6.33	21 8.8	.3092	11 10.3	1.91
	6	.721	.6809	.1010	6.40	21 10.1	.3090	11 6.7	2.04
	7	.732	.6777	.1003	6.46	21 11.4	.3087	11 3.2	2.17
	8	.743	.6745	.0995	6.53	21 12.6	.3084	10 59.6	2.30
	9	.753	.6713	.0987	6.59	21 13.8	.3081	10 56.1	2.43
	10	+0.764	−0.6681	+0.0978	6.66	21 15.0	1.3077	10 52.5	+2.56
	11	.775	.6648	.0969	6.72	21 16.1	.3074	10 49.0	2.69
	12	.786	.6616	.0960	6.79	21 17.2	.3070	10 45.4	2.81
	13	.797	.6583	.0950	6.85	21 18.2	.3066	10 41.9	2.94
	14	.807	.6550	.0940	6.92	21 19.2	.3062	10 38.3	3.06
	15	.818	.6517	.0929	6.98	21 20.2	.3058	10 34.7	3.19
	16	.829	.6485	.0918	7.05	21 21.1	.3053	10 31.1	3.31
	17	.839	.6452	.0907	7.12	21 22.0	.3049	10 27.5	3.44
	18	.849	.6419	.0896	7.18	21 22.9	.3044	10 23.9	3.56
	19	.860	.6386	.0884	7.25	21 23.7	.3040	10 20.3	3.68

1854

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	20	+0.870	−0.6353	+0.0872	7″.31	21h24m.5	1.3035	10h16m.7	+3″.80
	21	.880	.6320	.0860	7.38	21 25.2	.3030	10 13.0	3.92
	22	.890	.6287	.0847	7.45	21 26.0	.3025	10 9.4	4.04
	23	.901	.6254	.0834	7.51	21 26.7	.3020	10 5.7	4.16
	24	.911	.6221	.0821	7.58	21 27.4	.3014	10 2.1	4.28
	25	.920	.6189	.0807	7.64	21 28.0	.3009	9 58.4	4.39
	26	.930	.6156	.0793	7.71	21 28.6	.3003	9 54.7	4.51
	27	.940	.6124	.0779	7.77	21 29.2	.2998	9 51.0	4.62
	28	.950	.6091	.0765	7.84	21 29.8	.2992	9 47.3	4.73
	29	.959	.6059	.0751	7.90	21 30.4	.2986	9 43.6	4.84
	30	+0.969	−0.6027	+0.0737	7.97	21 30.9	1.2981	9 39.9	+4.94
	31	.978	.5995	.0723	8.03	21 31.4	.2975	9 36.2	5.05
August	1	.988	.5963	.0708	8.10	21 31.9	.2969	9 32.4	5.16
	2	0.997	.5932	.0693	8.16	21 32.4	.2963	9 28.7	5.27
	3	1.006	.5900	.0678	8.22	21 32.8	.2956	9 24.9	5.37
	4	.015	.5869	.0662	8.28	21 33.2	.2950	9 21.1	5.47
	5	.024	.5838	.0647	8.35	21 33.6	.2944	9 17.3	5.57
	6	.033	.5807	.0632	8.41	21 34.0	.2938	9 13.5	5.67
	7	.042	.5776	.0617	8.47	21 34.4	.2932	9 9.7	5.77
	8	.051	.5746	.0602	8.53	21 34.8	.2925	9 5.9	5.86
	9	+1.060	−0.5715	+0.0586	8.59	21 35.1	1.2919	9 2.0	+5.95
	10	.068	.5685	.0571	8.65	21 35.5	.2913	8 58.2	6.05
	11	.077	.5655	.0556	8.71	21 35.8	.2907	8 54.3	6.14
	12	.085	.5625	.0541	8.77	21 36.1	.2900	8 50.4	6.23
	13	.094	.5596	.0525	8.83	21 36.4	.2894	8 46.5	6.31
	14	.102	.5567	.0510	8.89	21 36.7	.2888	8 42.6	6.40
	15	.110	.5538	.0495	8.95	21 37.0	.2882	8 38.7	6.48
	16	.118	.5510	.0480	9.00	21 37.3	.2875	8 34.8	6.57
	17	.126	.5481	.0465	9.06	21 37.5	.2869	8 30.8	6.65
	18	.134	.5453	.0451	9.12	21 37.8	.2863	8 26.9	6.72
	19	+1.142	−0.5425	+0.0436	9.17	21 38.1	1.2857	8 22.9	+6.80
	20	.150	.5397	.0422	9.23	21 38.3	.2851	8 18.9	6.88
	21	.157	.5370	.0408	9.28	21 38.6	.2845	8 14.9	6.95
	22	.165	.5343	.0394	9.34	21 38.8	.2840	8 10.9	7.02
	23	.173	.5316	.0380	9.39	21 39.0	.2834	8 6.9	7.09
	24	.180	.5290	.0367	9.44	21 39.3	.2828	8 2.9	7.15
	25	.188	.5264	.0354	9.50	21 39.5	.2823	7 58.8	7.22
	26	.195	.5238	.0341	9.55	21 39.8	.2817	7 54.8	7.28
	27	.202	.5212	.0328	9.60	21 40.0	.2812	7 50.7	7.34
	28	.209	.5187	.0316	9.65	21 40.2	.2807	7 46.6	7.40
	29	+1.217	−0.5162	+0.0304	9.70	21 40.5	1.2802	7 42.6	+7.46
	30	.224	.5138	.0293	9.75	21 40.7	.2797	7 38.5	7.51
	31	.231	.5114	.0282	9.80	21 40.9	.2792	7 34.4	7.56
Septbr.	1	.238	.5090	.0271	9.85	21 41.2	.2788	7 30.2	7.61
	2	.244	.5066	.0260	9.89	21 41.4	.2783	7 26.1	7.66
	3	.251	.5042	.0250	9.94	21 41.6	.2779	7 22.0	7.71
	4	.258	.5018	.0240	9.99	21 41.8	.2775	7 17.8	7.75
	5	.265	.4995	.0231	10.04	21 42.1	.2771	7 13.6	7.79
	6	.272	.4972	.0222	10.08	21 42.3	.2767	7 9.5	7.83
	7	.278	.4950	.0214	10.13	21 42.6	.2764	7 5.3	7.87

1854

12h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	8	+1s.285	−0.4928	+0.0206	10″.17	21h42m.8	1.2761	7h 1m.1	+7″.89
	9	.291	.4906	.0199	10.21	21 43.1	.2757	6 56.9	7.94
	10	.298	.4884	.0192	10.26	21 43.4	.2754	6 52.7	7.97
	11	.304	.4863	.0185	10.30	21 43.6	.2751	6 48.5	7.99
	12	.311	.4842	.0179	10.34	21 43.9	.2749	6 44.3	8.02
	13	.317	.4821	.0174	10.38	21 44.2	.2747	6 40.1	8.04
	14	.324	.4800	.0170	10.43	21 44.5	.2745	6 35.8	8.06
	15	.330	.4779	.0166	10.47	21 44.8	.2743	6 31.6	8.08
	16	.337	.4759	.0162	10.51	21 45.1	.2741	6 27.3	8.10
	17	.343	.4739	.0159	10.55	21 45.4	.2740	6 23.1	8.11
	18	+1.349	−0.4719	+0.0156	10.59	21 45.7	1.2739	6 18.8	+8.12
	19	.355	.4700	.0154	10.63	21 46.0	.2738	6 14.6	8.13
	20	.362	.4680	.0152	10.67	21 46.4	.2737	6 10.3	8.14
	21	.368	.4661	.0151	10.71	21 46.7	.2737	6 6.0	8.15
	22	.374	.4642	.0150	10.74	21 47.1	.2736	6 1.8	8.15
	23	.381	.4623	.0150	10.78	21 47.4	.2736	5 57.5	8.15
	24	.387	.4604	.0151	10.82	21 47.8	.2737	5 53.2	8.15
	25	.393	.4586	.0152	10.86	21 48.2	.2737	5 48.9	8.14
	26	.400	.4567	.0154	10.89	21 48.6	.2738	5 44.6	8.13
	27	.406	.4549	.0156	10.93	21 49.0	.2739	5 40.4	8.12
	28	+1.412	−0.4530	+0.0159	10.97	21 49.4	1.2740	5 36.1	+8.11
	29	.419	.4512	.0162	11.00	21 49.8	.2741	5 31.8	8.10
	30	.425	.4493	.0166	11.04	21 50.2	.2743	5 27.5	8.08
Oktbr.	1	.431	.4475	.0170	11.08	21 50.7	.2745	5 23.3	8.06
	2	.438	.4457	.0175	11.11	21 51.1	.2747	5 19.0	8.04
	3	.444	.4439	.0181	11.15	21 51.6	.2750	5 14.7	8.01
	4	.451	.4422	.0187	11.19	21 52.0	.2752	5 10.4	7.99
	5	.457	.4404	.0194	11.22	21 52.5	.2755	5 6.2	7.96
	6	.464	.4387	.0201	11.26	21 53.0	.2758	5 1.9	7.93
	7	.470	.4369	.0209	11.29	21 53.5	.2762	4 57.6	7.89
	8	+1.477	−0.4351	+0.0217	11.33	21 54.0	1.2765	4 53.4	+7.86
	9	.484	.4333	.0226	11.36	21 54.6	.2769	4 49.1	7.82
	10	.491	.4315	.0235	11.40	21 55.1	.2773	4 44.9	7.78
	11	.498	.4297	.0245	11.44	21 55.6	.2777	4 40.6	7.74
	12	.504	.4279	.0255	11.47	21 56.2	.2781	4 36.4	7.69
	13	.511	.4261	.0265	11.51	21 56.7	.2785	4 32.2	7.64
	14	.518	.4243	.0276	11.54	21 57.3	.2790	4 27.9	7.59
	15	.525	.4225	.0287	11.58	21 57.9	.2794	4 23.7	7.54
	16	.533	.4207	.0299	11.61	21 58.5	.2799	4 19.5	7.49
	17	.540	.4189	.0311	11.65	21 59.0	.2805	4 15.3	7.43
	18	+1.547	−0.4171	+0.0323	11.69	21 59.6	1.2810	4 11.1	+7.37
	19	.554	.4152	.0336	11.73	22 0.3	.2815	4 6.9	7.31
	20	.562	.4133	.0349	11.76	22 0.9	.2821	4 2.7	7.24
	21	.569	.4114	.0362	11.80	22 1.5	.2826	3 58.6	7.18
	22	.577	.4095	.0376	11.84	22 2.2	.2832	3 54.4	7.11
	23	.585	.4075	.0390	11.88	22 2.8	.2838	3 50.3	7.04
	24	.592	.4056	.0404	11.92	22 3.5	.2844	3 46.1	6.97
	25	.600	.4036	.0418	11.96	22 4.1	.2850	3 42.0	6.89
	26	.608	.4016	.0433	12.00	22 4.8	.2856	3 37.8	6.81
	27	.616	3996	.0448	12.04	22 5.5	.2862	3 33.7	6.74

1854

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	28	+1.624	−0.3975	+0.0463	12.08	22h 6m.1	1.2869	3h29m.6	+6.66
	29	.633	.3954	.0479	12.12	22 6.8	.2875	3 25.5	6.57
	30	.641	.3933	.0494	12.16	22 7.5	.2881	3 21.4	6.49
	31	.649	.3912	.0510	12.21	22 8.2	.2888	3 17.3	6.40
Novbr.	1	.658	.3891	.0526	12.25	22 8.9	.2894	3 13.3	6.31
	2	.666	.3869	.0542	12.29	22 9.6	.2901	3 9.2	6.22
	3	.675	.3847	.0558	12.34	22 10.3	.2907	3 5.2	6.13
	4	.684	.3824	.0574	12.38	22 11.0	.2914	3 1.1	6.03
	5	.693	.3801	.0590	12.43	22 11.7	.2921	2 57.1	5.94
	6	.702	.3778	.0606	12.48	22 12.4	.2927	2 53.1	5.84
	7	+1.711	−0.3755	+0.0622	12.52	22 13.1	1.2934	2 49.1	+5.74
	8	.720	.3731	.0638	12.57	22 13.8	.2940	2 45.1	5.63
	9	.729	.3706	.0654	12.62	22 14.5	.2947	2 41.1	5.53
	10	.739	.3681	.0670	12.67	22 15.2	.2953	2 37.1	5.42
	11	.748	.3656	.0686	12.72	22 15.8	.2960	2 33.1	5.31
	12	.758	.3631	.0701	12.77	22 16.5	.2966	2 29.2	5.20
	13	.767	.3606	.0717	12.82	22 17.2	.2972	2 25.3	5.09
	14	.777	.3580	.0732	12.87	22 17.9	.2978	2 21.3	4.98
	15	.787	.3554	.0747	12.93	22 18.6	.2984	2 17.4	4.87
	16	.797	.3527	.0762	12.98	22 19.3	.2991	2 13.5	4.75
	17	+1.807	−0.3500	+0.0777	13.03	22 20.0	1.2997	2 9.5	+4.63
	18	.817	.3472	.0791	13.09	22 20.7	.3002	2 5.6	4.52
	19	.827	.3444	.0806	13.15	22 21.3	.3008	2 1.8	4.40
	20	.838	.3416	.0820	13.20	22 22.0	.3014	1 57.9	4.27
	21	.848	.3387	.0834	13.26	22 22.7	.3020	1 54.0	4.15
	22	.859	.3358	.0848	13.32	22 23.3	.3025	1 50.1	4.03
	23	.869	.3329	.0862	13.37	22 24.0	.3031	1 46.3	3.90
	24	.880	.3299	.0875	13.44	22 24.6	.3036	1 42.4	3.77
	25	.891	.3269	.0888	13.50	22 25.2	.3041	1 38.6	3.64
	26	.902	.3238	.0900	13.56	22 25.8	.3046	1 34.8	3.52
	27	+1.912	−0.3207	+0.0912	13.62	22 26.5	1.3051	1 30.9	+3.39
	28	.923	.3176	.0924	13.68	22 27.1	.3055	1 27.1	3.25
	29	.935	.3144	.0935	13.75	22 27.6	.3060	1 23.3	3.12
	30	.946	.3112	.0946	13.81	22 28.2	.3064	1 19.5	2.99
Dezbr.	1	.957	.3080	.0957	13.88	22 28.8	.3068	1 15.7	2.85
	2	.968	.3047	.0967	13.94	22 29.3	.3072	1 11.9	2.72
	3	.979	.3014	.0977	14.01	22 29.9	.3076	1 8.1	2.58
	4	1.991	.2981	.0986	14.07	22 30.4	.3080	1 4.3	2.44
	5	2.002	.2948	.0995	14.14	22 31.0	.3083	1 0.5	2.30
	6	.014	.2914	.1003	14.21	22 31.5	.3087	0 56.8	2.17
	7	+2.025	−0.2880	+0.1011	14.28	22 32.0	1.3090	0 53.0	+2.03
	8	.037	.2845	.1018	14.35	22 32.4	.3093	0 49.2	1.89
	9	.049	.2810	.1025	14.42	22 32.9	.3095	0 45.5	1.74
	10	.060	.2775	.1031	14.49	22 33.4	.3098	0 41.7	1.60
	11	.072	.2740	.1037	14.56	22 33.9	.3100	0 38.0	1.46
	12	.084	.2704	.1042	14.63	22 34.3	.3102	0 34.2	1.32
	13	.096	.2668	.1046	14.70	22 34.8	.3104	0 30.5	1.18
	14	.108	.2632	.1050	14.78	22 35.2	.3105	0 26.7	1.03
	15	.119	.2596	.1054	14.85	22 35.6	.3107	0 23.0	0.89
	16	.131	.2559	.1057	14.92	22 36.0	.3108	0 19.3	0.75

1854

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	17	$+2^s.143$	−0.2522	+0.1060	14″.99	$22^h36^m.4$	1.3109	$0^h15^m.5$	+0″.60
	18	.155	.2485	.1062	15.07	22 36.8	.3110	0 11.8	0.46
	19	.167	.2448	.1064	15.14	22 37.1	.3111	0 8.1	0.31
	20	.179	.2410	.1065	15.22	22 37.4	.3111	0 4.3	0.17
	21	.191	.2373	.1065	15.29	22 37.8	.3111	0 0.6	+0.02
	22	.203	.2335	.1065	15.37	22 38.1	.3111	23 56.8	−0.12
	23	.215	.2298	.1064	15.44	22 38.4	.3111	23 53.1	0.27
	24	.227	.2260	.1062	15.52	22 38.7	.3110	23 49.3	0.41
	25	.239	.2222	.1060	15.60	22 39.0	.3110	23 45.6	0.56
	26	.251	.2184	.1058	15.67	22 39.2	.3109	23 41.8	0.70
	27	+2.263	−0.2146	+0.1055	15.75	22 39.5	1.3108	23 38.1	−0.85
	28	.275	.2108	.1052	15.83	22 39.7	.3106	23 34.3	0.99
	29	.287	.2070	.1048	15.90	22 39.9	.3105	23 30.6	1.13
	30	.299	.2031	.1044	15.98	22 40.2	.3103	23 26.8	1.28
	31	.311	.1992	.1040	16.06	22 40.4	.3101	23 23.1	1.42

1855

Januar	1	$-0^s.749$	−0.6341	+0.1033	7″.34	$15^h13^m.3$	1.3098	$23^h19^m.3$	−1″.56
	2	.737	.6361	.1027	7.30	15 15.4	.3096	23 15.6	1.70
	3	.726	.6380	.1020	7.26	15 17.5	.3093	23 11.8	1.84
	4	.714	.6399	.1013	7.22	15 19.7	.3091	23 8.0	1.99
	5	.702	.6417	.1005	7.18	15 21.9	.3088	23 4.2	2.13
	6	.691	.6434	.0997	7.15	15 24.1	.3084	23 0.5	2.27
	7	.679	.6451	.0988	7.11	15 26.3	.3081	22 56.7	2.40
	8	.668	.6467	.0979	7.08	15 28.5	.3077	22 52.9	2.54
	9	.657	.6482	.0969	7.05	15 30.8	.3074	22 49.1	2.68
	10	.645	.6497	.0959	7.02	15 33.1	.3070	22 45.3	2.82
	11	−0.634	−0.6511	+0.0949	6.99	15 35.4	1.3066	22 41.5	−2.95
	12	.623	.6525	.0938	6.97	15 37.8	.3061	22 37.6	3.09
	13	.612	.6538	.0927	6.94	15 40.1	.3057	22 33.8	3.22
	14	.600	.6550	.0915	6.92	15 42.5	.3052	22 30.0	3.35
	15	.589	.6561	.0903	6.89	15 44.8	.3047	22 26.1	3.48
	16	.578	.6572	.0891	6.87	15 47.2	.3042	22 22.3	3.61
	17	.568	.6582	.0878	6.85	15 49.6	.3037	22 18.4	3.74
	18	.557	.6591	.0865	6.83	15 52.0	.3032	22 14.5	3.87
	19	.546	.6600	.0852	6.82	15 54.4	.3027	22 10.7	4.00
	20	.535	.6608	.0838	6.80	15 56.8	.3021	22 6.8	4.12
	21	−0.525	−0.6615	+0.0824	6.79	15 59.2	1.3015	22 2.9	−4.25
	22	.515	.6621	.0809	6.77	16 1.6	.3010	21 59.0	4.37
	23	.504	.6627	.0795	6.76	16 4.0	.3004	21 55.1	4.49
	24	.494	.6632	.0780	6.75	16 6.4	.2998	21 51.1	4.61
	25	.484	.6637	.0765	6.74	16 8.8	.2992	21 47.2	4.73
	26	.474	.6641	.0750	6.73	16 11.1	.2986	21 43.3	4.85
	27	.464	.6644	.0735	6.73	16 13.5	.2980	21 39.3	4.97
	28	.454	.6647	.0719	6.72	16 15.8	.2973	21 35.3	5.08
	29	.444	.6649	.0703	6.72	16 18.2	.2967	21 31.4	5.19
	30	.435	.6651	.0687	6.71	16 20.5	.2960	21 27.4	5.30

1855

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 31	$-0^s.425$	−0.6653	+0.0671	6″71	$16^h22^m.8$	1.2954	$21^h23^m.4$	−5″41
Februar 1	.415	.6654	.0655	6.71	16 25.1	.2947	21 19.4	5.52
2	.406	.6654	.0639	6.71	16 27.4	.2941	21 15.4	5.62
3	.397	.6654	.0623	6.71	16 29.6	.2934	21 11.3	5.72
4	.388	.6654	.0607	6.71	16 31.8	.2928	21 7.3	5.83
5	.379	.6653	.0591	6.71	16 34.0	.2921	21 3.2	5.93
6	.370	.6652	.0575	6.71	16 36.2	.2914	20 59.2	6.02
7	.361	.6650	.0559	6.72	16 38.4	.2908	20 55.1	6.12
8	.352	.6648	.0543	6.72	16 40.5	.2901	20 51.0	6.21
9	.343	.6645	.0527	6.73	16 42.6	.2895	20 46.9	6.31
10	−0.335	−0.6642	+0.0511	6.73	16 44.7	1.2888	20 42.8	−6.40
11	.326	.6639	.0496	6.74	16 46.7	.2882	20 38.7	6.48
12	.318	.6636	.0480	6.75	16 48.8	.2875	20 34.6	6.57
13	.309	.6632	.0465	6.75	16 50.8	.2869	20 30.4	6.65
14	.301	.6628	.0450	6.76	16 52.7	.2862	20 26.3	6.74
15	.293	.6624	.0435	6.77	16 54.7	.2856	20 22.1	6.82
16	.285	.6620	.0420	6.78	16 56.6	.2850	20 17.9	6.89
17	.277	.6616	.0405	6.79	16 58.5	.2844	20 13.8	6.97
18	.269	.6612	.0391	6.79	17 0.4	.2838	20 9.6	7.04
19	.262	.6607	.0377	6.80	17 2.3	.2832	20 5.4	7.11
20	−0.254	−0.6602	+0.0363	6.81	17 4.1	1.2826	20 1.2	−7.18
21	.246	.6597	.0349	6.82	17 5.9	.2820	19 57.0	7.25
22	.239	.6593	.0335	6.83	17 7.7	.2815	19 52.7	7.31
23	.231	.6588	.0322	6.84	17 9.4	.2809	19 48.5	7.37
24	.224	.6583	.0309	6.85	17 11.2	.2804	19 44.3	7.43
25	.217	.6578	.0297	6.86	17 12.9	.2799	19 40.0	7.49
26	.209	.6573	.0285	6.87	17 14.5	.2794	19 35.7	7.55
27	.202	.6568	.0274	6.88	17 16.2	.2789	19 31.5	7.60
28	.195	.6563	.0263	6.89	17 17.8	.2784	19 27.2	7.65
März 1	.188	.6558	.0253	6.90	17 19.4	.2780	19 22.9	7.70
2	−0.181	−0.6553	+0.0243	6.91	17 21.0	1.2776	19 18.6	−7.74
3	.174	.6548	.0234	6.92	17 22.6	.2772	19 14.3	7.79
4	.167	.6543	.0225	6.93	17 24.2	.2768	19 10.0	7.83
5	.160	.6539	.0216	6.94	17 25.7	.2764	19 5.7	7.87
6	.154	.6534	.0208	6.95	17 27.2	.2761	19 1.4	7 90
7	.147	.6530	.0200	6.96	17 28.7	.2758	18 57.1	7.93
8	.140	.6526	.0193	6.97	17 30.2	.2755	18 52.8	7.96
9	.134	.6522	.0186	6.97	17 31.7	.2752	18 48.5	7.99
10	.127	.6518	.0180	6.98	17 33.2	.2749	18 44.2	8.02
11	.120	.6514	.0174	6.99	17 34.6	.2747	18 39.8	8.05
12	−0.114	−0.6510	+0.0169	7.00	17 36.0	1.2745	18 35.5	−8.07
13	.107	.6507	.0165	7.00	17 37.5	.2743	18 31.2	8.09
14	.101	.6504	.0161	7.01	17 38.9	.2741	18 26.8	8.10
15	.094	.6501	.0158	7.02	17 40.3	.2740	18 22.5	8.11
16	.088	.6498	.0155	7.02	17 41.7	.2739	18 18.2	8.13
17	.081	.6495	.0153	7.03	17 43.1	.2738	18 13.8	8.14
18	.075	.6493	.0151	7.03	17 44.5	.2737	18 9.5	8.14
19	.069	.6491	.0150	7.04	17 45.9	.2737	18 5.2	8.15
20	.062	.6489	.0150	7.04	17 47.2	.2736	18 0.9	8.15
21	.056	.6487	.0150	7.04	17 48.6	.2737	17 56.5	8.15

1855

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	22	$-0^s.049$	−0.6485	+0.0151	7″.05	$17^h 50^m.0$	1.2737	$17^h 52^m.2$	−8″.14
	23	.043	.6484	.0152	7.05	17 51.3	.2737	17 47.9	8.14
	24	.036	.6483	.0154	7.05	17 52.7	.2738	17 43.6	8.13
	25	.030	.6482	.0157	7.05	17 54.1	.2739	17 39.3	8.12
	26	.023	.6481	.0160	7.06	17 55.4	.2741	17 34.9	8.11
	27	.017	.6481	.0164	7.06	17 56.8	.2742	17 30.6	8.09
	28	.010	.6480	.0168	7.06	17 58.2	.2744	17 26.3	8.07
	29	−0.004	.6480	.0172	7.06	17 59.6	.2746	17 22.1	8.05
	30	+0.003	.6479	.0177	7.06	18 1.0	.2748	17 17.8	8.03
	31	.009	.6479	.0182	7.06	18 2.4	.2750	17 13.5	8.01
April	1	+0.016	−0.6479	+0.0188	7.06	18 3.8	1.2753	17 9.3	−7.98
	2	.022	.6479	.0195	7.06	18 5.2	.2756	17 5.0	7.95
	3	.029	.6480	.0203	7.06	18 6.6	.2759	17 0.7	7.92
	4	036	.6481	.0211	7.05	18 8.1	.2762	16 56.5	7.89
	5	.042	.6482	.0219	7.05	18 9.5	.2766	16 52.3	7.85
	6	.049	.6484	.0228	7.05	18 11.0	.2769	16 48.0	7.81
	7	.056	.6485	.0237	7.05	18 12.4	.2773	16 43.8	7.77
	8	.063	.6487	.0247	7.04	18 13.9	.2777	16 39.6	7.72
	9	.070	.6488	.0257	7.04	18 15.4	.2782	16 35.4	7.68
	10	.077	.6490	.0267	7.04	18 16.9	.2786	16 31.2	7.63
	11	+0.084	−0.6491	+0.0278	7.04	18 18.4	1.2791	16 27.1	−7.58
	12	.091	.6493	.0289	7.03	18 19.9	.2795	16 22.9	7.53
	13	.099	.6494	.0300	7.03	18 21.5	.2800	16 18.8	7.47
	14	.106	.6496	.0312	7.02	18 23.0	.2805	16 14.6	7.42
	15	.113	.6498	.0324	7.02	18 24.6	.2810	16 10.5	7.36
	16	.121	.6500	.0337	7.02	18 26.2	.2816	16 6.4	7.30
	17	.128	.6502	.0350	7.01	18 27.8	.2821	16 2.3	7.24
	18	.136	.6504	.0363	7.01	18 29.5	.2826	15 58.2	7.17
	19	.143	.6506	.0376	7.01	18 31.1	.2832	15 54.1	7.11
	20	.151	.6507	.0390	7.01	18 32.8	.2838	15 50.1	7.04
	21	+0.159	−0.6508	+0.0404	7.00	18 34.5	1.2843	15 46.0	−6.97
	22	.167	.6509	.0418	7.00	18 36.3	.2849	15 42.0	6.89
	23	.175	.6511	.0432	7.00	18 38.0	.2856	15 37.9	6.82
	24	.183	.6512	.0447	6.99	18 39.8	.2862	15 33.9	6.74
	25	.191	.6513	.0462	6.99	18 41.5	.2868	15 29.9	6.66
	26	.199	.6514	.0477	6.99	18 43.3	.2874	15 25.9	6.58
	27	.207	.6515	.0492	6.99	18 45.2	.2880	15 22.0	6.50
	28	.216	.6516	.0507	6.99	18 47.0	.2887	15 18.0	6.41
	29	.224	.6516	.0523	6.99	18 48.9	.2893	15 14.1	6.33
	30	.233	.6516	.0538	6.99	18 50.7	.2899	15 10.1	6.24
Mai	1	+0.241	−0.6516	+0.0553	6.99	18 52.6	1.2905	15 6.2	−6.15
	2	.250	.6515	.0568	6.99	18 54.5	.2912	15 2.3	6.06
	3	.259	.6514	.0584	6.99	18 56.4	.2918	14 58.4	5.97
	4	.268	.6513	.0599	6.99	18 58.4	.2924	14 54.6	5.87
	5	.277	.6512	.0615	6.99	19 0.4	.2931	14 50.7	5.78
	6	.286	.6510	.0630	7.00	19 2.4	.2937	14 46.9	5.68
	7	.295	.6508	.0646	7.00	19 4.4	.2943	14 43.0	5.58
	8	.304	.6506	.0661	7.01	19 6.4	.2950	14 39.2	5.48
	9	.313	.6503	.0676	7.01	19 8.4	.2956	14 35.4	5.38
	10	.323	.6500	.0691	7.02	19 10.4	.2962	14 31.6	5.27

1855

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	11	+0.8332	−0.6497	+0.0706	7.″02	$19^h12^m.5$	1.2968	$14^h27^m.8$	−5.″17
	12	.342	.6493	.0721	7.03	19 14.5	.2974	14 24.0	5.06
	13	.352	.6489	.0736	7.04	19 16.6	.2980	14 20.2	4.95
	14	.361	.6484	.0751	7.05	19 18.7	.2986	14 16.5	4.84
	15	.371	.6479	.0765	7.06	19 20.8	.2992	14 12.7	4.73
	16	.381	.6473	.0779	7.07	19 22.9	.2997	14 9.0	4.62
	17	.391	.6467	.0793	7.08	19 25.0	.3003	14 5.3	4.50
	18	.401	.6460	.0807	7.10	19 27.1	.3009	14 1.6	4.39
	19	.411	.6453	.0820	7.11	19 29.2	.3014	13 57.9	4.28
	20	.421	.6445	.0833	7.13	19 31.3	.3019	13 54.2	4.16
	21	+0.432	−0.6436	+0.0846	7.14	19 33.4	1.3025	13 50.5	−4.04
	22	.442	.6427	.0859	7.16	19 35.6	.3030	13 46.9	3.92
	23	.453	.6418	.0872	7.18	19 37.7	.3035	13 43.2	3.80
	24	.463	.6408	.0884	7.20	19 39.8	.3040	13 39.6	3.68
	25	.474	.6398	.0896	7.22	19 41.9	.3044	13 36.0	3.56
	26	.484	.6387	.0908	7.25	19 44.0	.3049	13 32.3	3.43
	27	.495	.6375	.0919	7.27	19 46.1	.3053	13 28.7	3.31
	28	.506	.6363	.0930	7.29	19 48.2	.3058	13 25.1	3.18
	29	.517	.6350	.0941	7.32	19 50.3	.3062	13 21.5	3.06
	30	.528	.6337	.0951	7.34	19 52.3	.3066	13 17.9	2.93
	31	+0.538	−0.6323	+0.0961	7.37	19 54.4	1.3070	13 14.3	−2.80
Juni	1	.549	.6308	.0970	7.40	19 56.4	.3074	13 10.7	2.67
	2	.561	.6293	.0979	7.43	19 58.4	.3077	13 7.2	2.55
	3	.572	.6277	.0987	7.46	20 0.4	.3081	13 3.6	2.42
	4	.583	.6261	.0995	7.50	20 2.4	.3084	13 0.1	2.29
	5	.594	.6244	.1003	7.53	20 4.4	.3087	12 56.5	2.15
	6	.605	.6227	.1011	7.56	20 6.4	.3090	12 53.0	2.02
	7	.617	.6209	.1018	7.60	20 8.3	.3092	12 49.4	1.89
	8	.628	.6190	.1024	7.64	20 10.3	.3095	12 45.9	1.76
	9	.639	.6171	.1030	7.68	20 12.2	.3097	12 42.3	1.63
	10	+0.651	−0.6151	+0.1035	7.72	20 14.0	1.3100	12 38.8	−1.49
	11	.662	.6131	.1040	7.76	20 15.9	.3102	12 35.3	1.36
	12	.674	.6110	.1045	7.80	20 17.7	.3103	12 31.8	1.23
	13	.685	.6089	.1049	7.84	20 19.5	.3105	12 28.3	1.09
	14	.697	.6067	.1053	7.89	20 21.3	.3106	12 24.7	0.96
	15	.708	.6045	.1056	7.93	20 23.0	.3108	12 21.2	0.82
	16	.720	.6022	.1059	7.98	20 24.8	.3109	12 17.7	0.69
	17	.731	.5999	.1061	8.02	20 26.5	.3109	12 14.2	0.55
	18	.743	.5975	.1063	8.07	20 28.1	.3110	12 10.7	0.42
	19	.755	.5950	.1064	8.12	20 29.8	.3111	12 7.2	0.28
	20	+0.766	−0.5925	+0.1065	8.17	20 31.4	1.3111	12 3.7	−0.14
	21	.778	.5900	.1065	8.22	20 32.9	.3111	12 0.2	−0.01
	22	.789	.5874	.1065	8.27	20 34.5	.3111	11 56.7	+0.13
	23	.801	.5848	.1064	8.32	20 36.0	.3111	11 53.2	0.26
	24	.812	.5822	.1063	8.38	20 37.5	.3110	11 49.7	0.40
	25	.824	.5795	.1061	8.43	20 39.0	.3110	11 46.2	0.53
	26	.835	.5768	.1059	8.49	20 40.4	.3109	11 42.7	0.67
	27	.847	.5741	.1057	8.54	20 41.8	.3108	11 39.2	0.80
	28	.859	.5713	.1054	8.60	20 43.2	.3107	11 35.7	0.94
	29	.870	.5685	.1050	8.65	20 44.5	.3105	11 32.2	1.07

1855

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	30	+0.8882	−0.5656	+0.1046	8.″71	$20^h45.^m8$	1.3104	$11^h28.^m7$	+1.″21
Juli	1	.893	.5627	.1041	8.77	20 47.1	.3102	11 25.2	1.34
	2	.904	.5598	.1036	8.83	20 48.4	.3100	11 21.7	1.47
	3	.916	.5568	.1031	8.89	20 49.6	.3098	11 18.2	1.61
	4	.927	.5538	.1025	8.95	20 50.8	.3095	11 14.6	1.74
	5	.939	.5508	.1019	9.01	20 51.9	.3093	11 11.1	1.88
	6	.950	.5478	.1012	9.07	20 53.1	.3090	11 7.6	2.01
	7	.961	.5448	.1005	9.13	20 54.2	.3087	11 4.0	2.14
	8	.972	.5418	.0997	9.19	20 55.2	.3084	11 0.5	2.27
	9	.984	.5387	.0989	9.25	20 56.3	.3081	10 57.0	2.40
	10	+0.995	−0.5356	+0.0981	9.31	20 57.3	1.3078	10 53.4	+2.53
	11	1.006	.5325	.0972	9.37	20 58.3	.3074	10 49.8	2.65
	12	.017	.5294	.0963	9.44	20 59.2	.3071	10 46.3	2.78
	13	.028	.5263	.0953	9.50	21 0.1	.3067	10 42.7	2.91
	14	.039	.5232	.0943	9.56	21 1.0	.3063	10 39.1	3.04
	15	.050	.5200	.0932	9.62	21 1.9	.3059	10 35.6	3.16
	16	.060	.5168	.0921	9.69	21 2.8	.3054	10 32.0	3.28
	17	.071	.5136	.0910	9.75	21 3.6	.3050	10 28.4	3.41
	18	.082	.5104	.0899	9.81	21 4.4	.3045	10 24.8	3.53
	19	.092	.5073	.0887	9.88	21 5.2	.3041	10 21.2	3.65
	20	+1.103	−0.5041	+0.0875	9.94	21 5.9	1.3036	10 17.5	+3.77
	21	.113	.5010	.0863	10.01	21 6.7	.3031	10 13.9	3.89
	22	.124	.4978	.0850	10.07	21 7.4	.3026	10 10.3	4.01
	23	.134	.4947	.0837	10.13	21 8.1	.3021	10 6.6	4.13
	24	.144	.4915	.0824	10.19	21 8.8	.3016	10 2.9	4.25
	25	.155	.4884	.0810	10.26	21 9.4	.3010	9 59.3	4.36
	26	.165	.4852	.0797	10.32	21 10.1	.3005	9 55.6	4.48
	27	.175	.4821	.0783	10.38	21 10.7	.2999	9 51.9	4.59
	28	.185	.4789	.0769	10.45	21 11.3	.2993	9 48.2	4.70
	29	.194	.4758	.0755	10.51	21 11.9	.2988	9 44.5	4.81
	30	+1.204	−0.4726	+0.0741	10.57	21 12.4	1.2982	9 40.8	+4.92
	31	.214	.4695	.0726	10.64	21 13.0	.2976	9 37.1	5.03
August	1	.223	.4664	.0711	10.70	21 13.5	.2970	9 33.3	5.13
	2	.233	.4634	.0696	10.76	21 14.0	.2964	9 29.6	5.24
	3	.242	.4603	.0681	10.82	21 14.5	.2958	9 25.8	5.34
	4	.252	.4573	.0666	10.88	21 15.0	.2952	9 22.0	5.45
	5	.261	.4542	.0651	10.94	21 15.5	.2946	9 18.2	5.55
	6	.271	.4512	.0635	11.00	21 15.9	.2939	9 14.4	5.65
	7	.280	.4482	.0620	11.06	21 16.3	.2933	9 10.6	5.74
	8	.289	.4452	.0605	11.12	21 16.8	.2927	9 6.8	5.84
	9	+1.297	−0.4422	+0.0590	11.18	21 17.2	1.2921	9 3.0	+5.93
	10	.306	.4392	.0574	11.24	21 17.6	.2914	8 59.1	6.02
	11	.315	.4363	.0559	11.30	21 18.0	.2908	8 55.2	6.12
	12	.324	.4334	.0544	11.36	21 18.4	.2902	8 51.4	6.21
	13	.332	.4305	.0529	11.42	21 18.8	.2895	8 47.5	6.29
	14	.341	.4276	.0514	11.48	21 19.2	.2889	8 43.6	6.38
	15	.349	.4248	.0499	11.53	21 19.5	.2883	8 39.7	6.47
	16	.358	.4220	.0484	11.59	21 19.9	.2877	8 35.7	6.55
	17	.366	.4192	.0469	11.64	21 20.2	.2871	8 31.8	6.63
	18	.374	.4165	.0455	11.70	21 20.5	.2865	8 27.8	6.71

1855

12h M. Z. Berlin	f	x	y	g	G	log h	H	i
August 19	+1.s382	−0.4138	+0.0440	11.″75	21h20.m9	1.2859	8h23.m9	+6.″78
20	.390	.4111	.0426	11.81	21 21.2	.2853	8 19.9	6.86
21	.398	.4084	.0411	11.86	21 21.5	.2847	8 15.9	6.93
22	.406	.4057	.0397	11.92	21 21.8	.2841	8 11.9	7.00
23	.414	.4031	.0383	11.97	21 22.1	.2835	8 7.9	7.07
24	.422	.4005	.0370	12.02	21 22.4	.2830	8 3.9	7.14
25	.429	.3979	.0357	12.07	21 22.7	.2824	7 59.8	7.20
26	.437	.3954	.0344	12.12	21 23.0	.2818	7 55.8	7.27
27	.444	.3929	.0331	12.17	21 23.3	.2813	7 51.7	7.33
28	.452	.3904	.0319	12.22	21 23.6	.2808	7 47.6	7.39
29	+1.459	−0.3879	+0.0307	12.27	21 23.9	1.2803	7 43.6	+7.44
30	.466	.3855	.0295	12.32	21 24.2	.2798	7 39.5	7.50
31	.474	.3831	.0284	12.37	21 24.5	.2793	7 35.4	7.55
Septbr. 1	.481	.3807	.0273	12.42	21 24.8	.2789	7 31.2	7.60
2	.488	.3783	.0263	12.46	21 25.1	.2784	7 27.1	7.65
3	.495	.3760	.0253	12.51	21 25.4	.2780	7 23.0	7.70
4	.502	.3737	.0243	12.56	21 25.7	.2776	7 18.8	7.74
5	.509	.3715	.0234	12.60	21 26.0	.2772	7 14.7	7.78
6	.516	.3693	.0225	12.65	21 26.3	.2768	7 10.5	7.82
7	.523	.3671	.0217	12.69	21 26.6	.2765	7 6.3	7.86
8	+1.530	−0.3649	+0.0209	12.73	21 26.9	1.2761	7 2.1	+7.89
9	.537	.3628	0201	12.78	21 27.2	.2758	6 57.9	7.93
10	.543	.3607	.0194	12.82	21 27.5	.2755	6 53.7	7.96
11	.550	.3586	.0187	12.86	21 27.8	.2752	6 49.5	7.99
12	.557	.3565	.0181	12.90	21 28.1	.2750	6 45.3	8.01
13	.563	.3545	.0176	12.94	21 28.5	.2747	6 41.1	8.04
14	.570	.3525	.0171	12.98	21 28.8	.2745	6 36.9	8.06
15	.577	.3505	.0167	13.02	21 29.1	.2743	6 32.6	8.08
16	.583	.3485	.0163	13.06	21 29.4	.2742	6 28.4	8.10
17	.590	.3465	.0160	13.10	21 29.8	.2740	6 24.1	8.11
18	+1.596	−0.3446	+0.0157	13.14	21 30.1	1.2739	6 19.9	+8.12
19	.603	.3427	.0154	13.18	21 30.5	.2738	6 15.6	8.13
20	.609	.3408	.0152	13.22	21 30.8	.2737	6 11.3	8.14
21	.616	.3389	.0151	13.26	21 31.2	.2737	6 7.1	8.15
22	.622	.3370	.0150	13.29	21 31.6	.2737	6 2.8	8.15
23	.629	.3352	.0150	13.33	21 31.9	.2736	5 58.5	8.15
24	.635	.3334	.0151	13.37	21 32.3	.2737	5 54.2	8.15
25	.642	.3316	.0152	13.40	21 32.7	.2737	5 50.0	8.14
26	.648	.3298	.0153	13.44	21 33.1	.2738	5 45.7	8.14
27	.655	.3280	.0155	13.47	21 33.5	.2739	5 41.4	8.13
28	+1.662	−0.3262	+0.0158	13.51	21 33.9	1.2740	5 37.1	+8.12
29	.668	.3245	.0161	13.54	21 34.4	.2741	5 32.8	8.10
30	.675	.3227	.0165	13.58	21 34.8	.2743	5 28.6	8.09
Oktbr. 1	.681	.3210	.0169	13.61	21 35.2	.2745	5 24.3	8.07
2	.688	.3193	.0174	13.65	21 35.7	.2747	5 20.0	8.04
3	.694	.3176	.0180	13.68	21 36.1	.2749	5 15.7	8.02
4	.701	.3159	.0186	13.72	21 36.6	.2752	5 11.5	7.99
5	.708	.3142	.0192	13.75	21 37.0	.2754	5 7.2	7.96
6	.715	.3125	.0199	13.79	21 37.5	.2757	5 2.9	7.93
7	.722	.3108	.0207	13.82	21 38.0	.2761	4 58.7	7.90

1855

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	8	$+1^s.729$	−0.3091	+0.0215	13″.85	$21^h38^m.5$	1.2764	$4^h54^m.4$	+7″.87
	9	.735	.3074	.0224	13.89	21 39.0	.2768	4 50.2	7.83
	10	.742	.3058	.0233	13.92	21 39.5	.2771	4 45.9	7.79
	11	.749	.3041	.0242	13.95	21 40.1	.2775	4 41.7	7.75
	12	.757	.3024	.0252	13.99	21 40.6	.2780	4 37.4	7.70
	13	.764	.3007	.0262	14.02	21 41.1	.2784	4 33.2	7.65
	14	.771	.2990	.0273	14.06	21 41.7	.2788	4 19.0	7.60
	15	.778	.2973	.0284	14.09	21 42.2	.2793	4 24.7	7.55
	16	.786	.2956	.0296	14.12	21 42.8	.2798	4 20.5	7.50
	17	.793	.2939	.0308	14.16	21 43.3	.2803	4 16.3	7.44
	18	+1.800	−0.2922	+0.0320	14.19	21 43.9	1.2809	4 12.1	+7.38
	19	.808	.2904	.0333	14.23	21 44.5	.2814	4 7.9	7.32
	20	.816	.2887	.0346	14.26	21 45.1	.2819	4 3.8	7.26
	21	.823	.2869	.0359	14.30	21 45.7	.2825	3 59.6	7.19
	22	.831	.2851	.0373	14.34	21 46.3	.2831	3 55.4	7.13
	23	.839	.2833	.0387	14.37	21 46.9	.2836	3 51.3	7.06
	24	.847	.2815	.0401	14.41	21 47.5	.2842	3 47.1	6.98
	25	.855	.2796	.0415	14.45	21 48.1	.2848	3 43.0	6.91
	26	.863	.2777	.0430	14.48	21 48.8	.2854	3 38.8	6.83
	27	.871	.2758	.0445	14.52	21 49.4	.2861	3 34.7	6.75
	28	+1.880	−0.2739	+0.0460	14.56	21 50.1	1.2867	3 30.6	+6.67
	29	.888	.2719	.0476	14.60	21 50.7	.2873	3 26.5	6.59
	30	.897	.2699	.0491	14.64	21 51.4	.2880	3 22.4	6.51
	31	.905	.2679	.0507	14.68	21 52.0	.2886	3 18.3	6.42
Novbr.	1	.914	.2659	.0522	14.72	21 52.7	.2893	3 14.3	6.33
	2	.923	.2639	.0538	14.76	21 53.3	.2899	3 10.2	6.24
	3	.931	.2618	.0554	14.80	21 54.0	.2906	3 6.1	6.15
	4	.940	.2596	.0570	14.85	21 54.6	.2912	3 2.1	6.06
	5	.950	.2575	.0586	14.89	21 55.3	.2919	2 58.1	5.96
	6	.959	.2553	.0602	14.93	21 56.0	.2926	2 54.1	5.86
	7	+1.968	−0.2531	+0.0618	14.98	21 56.6	1.2932	2 50.0	+5.76
	8	.977	.2509	.0634	15.02	21 57.3	.2939	2 46.0	5.66
	9	.987	.2486	.0650	15.07	21 58.0	.2945	2 42.1	5.55
	10	1.996	.2463	.0666	15.11	21 58.7	.2952	2 38.1	5.45
	11	2.006	.2440	.0682	15.16	21 59.3	.2958	2 34.1	5.34
	12	.016	.2416	.0697	15.21	22 0.0	.2964	2 30.1	5.23
	13	.026	.2392	.0713	15.26	22 0.7	.2971	2 26.2	5.12
	14	.036	.2367	.0728	15.30	22 1.4	.2977	2 22.3	5.01
	15	.046	.2342	.0743	15.35	22 2.0	.2983	2 18.3	4.89
	16	.056	.2317	.0758	15.40	22 2.7	.2989	2 14.4	4.78
	17	+2.066	−0.2292	+0.0773	15.46	22 3.4	1.2995	2 10.5	+4.66
	18	.076	.2266	.0788	15.51	22 4.0	.3001	2 6.6	4.54
	19	.087	.2240	.0803	15.56	22 4.7	.3007	2 2.7	4.42
	20	.097	.2213	.0817	15.61	22 5.3	.3013	1 58.8	4.30
	21	.108	.2186	.0831	15.67	22 6.0	.3018	1 55.0	4.18
	22	.119	.2158	.0845	15.72	22 6.6	.3024	1 51.1	4.06
	23	.129	.2130	.0859	15.78	22 7.3	.3029	1 47.2	3.93
	24	.140	.2101	.0872	15.84	22 7.9	.3035	1 43.4	3.80
	25	.151	.2072	.0885	15.90	22 8.6	.3040	1 39.5	3.68
	26	.162	.2043	.0897	15.95	22 9.2	.3045	1 35.7	3.55

1855

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Novbr. 27	+2.173	−0.2014	+0.0909	16″.01	$22^h\ 9^m.8$	1.3050	$1^h31^m.9$	+3″.42
28	.184	.1984	.0921	16.07	22 10.4	.3054	1 28.1	3.29
29	.196	.1954	.0932	16.13	22 11.0	.3059	1 24.2	3.15
30	.207	.1923	.0943	16.20	22 11.6	.3063	1 20.4	3.02
Dezbr. 1	.218	.1892	.0954	16.26	22 12.2	.3068	1 16.6	2.89
2	.230	.1860	.0964	16.32	22 12.8	.3072	1 12.8	2.75
3	.241	.1828	.0974	16.38	22 13.4	.3075	1 9.0	2.61
4	.253	.1796	.0984	16.45	22 13.9	.3079	1 5.2	2.48
5	.265	.1764	.0993	16.51	22 14.5	.3083	1 1.5	2.34
6	.276	.1731	.1001	16.58	22 15.0	.3086	0 57.7	2.20
7	+2.288	−0.1698	+0.1009	16.65	22 15.6	1.3089	0 53.9	+2.06
8	.300	.1665	.1016	16.71	22 16.1	.3092	0 50.2	1.92
9	.312	.1631	.1023	16.78	22 16.6	.3095	0 46.4	1.78
10	.324	.1597	.1029	16.85	22 17.1	.3097	0 42.6	1.64
11	.336	.1563	.1035	16.92	22 17.6	.3099	0 38.9	1.50
12	.348	.1529	.1040	16.99	22 18.1	.3101	0 35.1	1.35
13	.360	.1494	.1045	17.06	22 18.6	.3103	0 31.4	1.21
14	.372	.1459	.1049	17.13	22 19.0	.3105	0 27.6	1.07
15	.384	.1423	.1053	17.20	22 19.5	.3107	0 23.9	0.93
16	.396	.1387	.1057	17.27	22 19.9	.3108	0 20.2	0.78
17	+2.408	−0.1351	+0.1060	17.34	22 20.4	1.3109	0 16.4	+0.64
18	.420	.1315	.1062	17.41	22 20.8	.3110	0 12.7	0.49
19	.432	.1279	.1064	17.49	22 21.2	.3111	0 9.0	0.35
20	.444	.1242	.1065	17.56	22 21.6	.3111	0 5.2	0.20
21	.456	.1206	.1065	17.63	22 22.0	.3111	0 1.5	+0.06
22	.469	.1169	.1065	17.71	22 22.3	.3111	23 57.7	−0.09
23	.481	.1132	.1064	17.78	22 22.7	.3111	23 54.0	0.23
24	.493	.1095	.1063	17.86	22 23.0	.3110	23 50.2	0.38
25	.505	.1058	.1061	17.93	22 23.4	.3110	23 46.5	0.52
26	.517	.1020	.1059	18.01	22 23.7	.3109	23 42.8	0.67
27	+2.529	−0.0983	+0.1056	18.08	22 24.0	1.3108	23 39.0	−0.81
28	.542	.0945	.1053	18.16	22 24.3	.3107	23 35.3	0.95
29	.554	.0907	.1049	18.23	22 24.6	.3105	23 31.5	1.10
30	.566	.0869	.1045	18.31	22 24.9	.3103	23 27.8	1.24
31	.578	.0831	.1041	18.38	22 25.2	.3101	23 24.0	1.38

1856

Januar	1	−0.482	−0.5992	+0.1034	8″.04	$16^h28^m.2$	1.3099	$23^h20^m.3$	−1″.53
	2	.470	.6001	.1028	8.02	16 30.3	.3097	23 16.5	1.67
	3	.458	.6010	.1022	8.00	16 32.5	.3094	23 12.7	1.81
	4	.446	.6018	.1015	7.98	16 34.7	.3091	23 8.9	1.95
	5	.434	.6025	.1007	7.97	16 36.9	.3088	23 5.2	2.09
	6	.422	.6032	.0999	7.96	16 39.1	.3085	23 1.4	2.23
	7	.410	.6038	.0990	7.94	16 41.3	.3082	22 57.6	2.37
	8	.399	.6043	.0981	7.93	16 43.6	.3078	22 53.8	2.51
	9	.387	.6048	.0972	7.92	16 45.8	.3075	22 50.0	2.65
	10	.376	.6052	.0962	7.91	16 48.0	.3071	22 46.2	2.78

1856

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 11	$-0^s.364$	−0.6056	+0.0952	7".91	$16^h50^m.2$	1.3067	$22^h42^m.4$	−2".92
12	.353	.6059	.0941	7.90	16 52.4	.3062	22 38.5	3.05
13	.342	.6061	.0930	7.90	16 54.6	.3058	22 34.7	3.19
14	.330	.6062	.0918	7.90	16 56.8	.3053	22 30.9	3.32
15	.319	.6063	.0906	7.90	16 59.0	.3048	22 27.1	3.45
16	.308	.6063	.0894	7.90	17 1.2	.3043	22 23.2	3.58
17	.297	.6062	.0881	7.90	17 3.4	.3038	22 19.4	3.71
18	.286	.6061	.0868	7.90	17 5.5	.3033	22 15.5	3.84
19	.275	.6059	.0855	7.90	17 7.7	.3028	22 11.6	3.97
20	.264	.6057	.0842	7.91	17 9.8	.3023	22 7.7	4.09
21	−0.253	−0.6054	+0.0828	7.91	17 11.9	1.3017	22 3.8	−4.22
22	.243	.6050	.0814	7.92	17 14.0	.3011	21 59.9	4.34
23	.232	.6046	.0799	7.93	17 16.1	.3005	21 56.0	4.46
24	.222	.6041	.0784	7.94	17 18.2	.2999	21 52.1	4.58
25	.211	.6036	.0769	7.95	17 20.2	.2993	21 48.2	4.70
26	.201	.6030	.0754	7.96	17 22.2	.2987	21 44.2	4.82
27	.191	.6024	.0739	7.97	17 24.2	.2981	21 40.3	4.94
28	.181	.6018	.0724	7.98	17 26.2	.2975	21 36.3	5.05
29	.171	.6011	.0708	8.00	17 28.1	.2969	21 32.3	5.16
30	.161	.6004	.0692	8.01	17 30.0	.2962	21 28.3	5.27
31	−0.151	−0.5997	+0.0676	8.03	17 31.9	1.2956	21 24.3	−5.38
Februar 1	.141	.5989	.0659	8.04	17 33.8	.2949	21 20.3	5.49
2	.132	.5981	.0643	8.06	17 35.7	.2942	21 16.3	5.60
3	.122	.5972	.0627	8.08	17 37.5	.2936	21 12.3	5.70
4	.113	.5963	.0611	8.09	17 39.3	.2929	21 8.3	5.80
5	.104	.5954	.0595	8.11	17 41.0	.2923	21 4.2	5.90
6	.094	.5945	.0579	8.13	17 42.8	.2916	21 0.2	6.00
7	.085	.5936	.0563	8.15	17 44.5	.2909	20 56.1	6.10
8	.077	.5926	.0547	8.17	17 46.2	.2903	20 52.0	6.19
9	.068	.5916	.0531	8.19	17 47.8	.2896	20 47.9	6.29
10	−0.059	−0.5906	+0.0515	8.21	17 49.5	1.2890	20 43.8	−6.38
11	.050	.5896	.0499	8.23	17 51.1	.2883	20 39.7	6.46
12	.041	.5886	.0484	8.25	17 52.6	.2877	20 35.6	6.55
13	.033	.5876	.0468	8.27	17 54.2	.2870	20 31.5	6.63
14	.024	.5865	.0453	8.29	17 55.7	.2864	20 27.3	6.72
15	.016	.5854	.0438	8.31	17 57.2	.2858	20 23.1	6.80
16	−0.008	.5843	.0423	8.33	17 58.7	.2852	20 19.0	6.87
17	0.000	.5832	.0408	8.35	18 0.2	.2845	20 14.8	6.95
18	+0.008	.5822	.0394	8.38	18 1.7	.2839	20 10.6	7.02
19	.016	.5811	.0380	8.40	18 3.1	.2833	20 6.4	7.10
20	+0.024	−0.5801	+0.0366	8.42	18 4.5	1.2828	20 2.2	−7.17
21	.032	.5790	.0352	8.44	18 5.8	.2822	19 58.0	7.23
22	.040	.5780	.0339	8.46	18 7.2	.2816	19 53.8	7.30
23	.047	.5769	.0326	8.48	18 8.5	.2811	19 49.5	7.36
24	.055	.5759	.0313	8.50	18 9.9	.2805	19 45.3	7.42
25	.062	.5749	.0300	8.52	18 11.2	.2800	19 41.0	7.48
26	.070	.5739	.0288	8.54	18 12.5	.2795	19 36.8	7.53
27	.077	.5729	.0276	8.56	18 13.7	.2790	19 32.5	7.59
28	.085	.5719	.0265	8.58	18 14.9	.2785	19 28.2	7.64
29	.092	.5709	.0255	8.60	18 16.2	.2781	19 24.0	7.69

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	1	+0.8099	−0.5700	+0.0245	8.″62	$18^h17.^m4$	1.2777	$19^h19.^m7$	−7.″73
	2	.106	.5691	.0236	8.64	18 18.6	.2773	19 15.4	7.78
	3	.113	.5682	.0227	8.66	18 19.8	.2769	19 11.1	7.82
	4	.120	.5673	.0218	8.68	18 20.9	.2765	19 6.8	7.86
	5	.127	.5664	.0210	8.70	18 22.1	.2762	19 2.5	7.89
	6	.134	.5655	.0202	8.71	18 23.3	.2758	18 58.2	7.93
	7	.141	.5647	.0194	8.73	18 24.4	.2755	18 53.8	7.96
	8	.148	.5638	.0187	8.75	18 25.5	.2752	18 49.5	7.99
	9	.154	.5630	.0181	8.76	18 26.7	.2750	18 45.2	8.01
	10	.161	.5622	.0175	8.78	18 27.8	.2747	18 40.9	8.04
	11	+0.168	−0.5615	+0.0170	8.79	18 28.9	1.2745	18 36.6	−8.06
	12	.175	.5608	.0166	8.81	18 30.0	.2743	18 32.2	8.08
	13	.181	.5601	.0162	8.82	18 31.1	.2741	18 27.9	8.10
	14	.188	.5594	.0159	8.83	18 32.2	.2740	18 23.6	8.11
	15	.195	.5587	.0156	8.85	18 33.2	.2739	18 19.2	8.12
	16	.201	.5581	.0154	8.86	18 34.3	.2738	18 14.9	8.13
	17	.208	.5575	.0152	8.87	18 35.4	.2737	18 10.5	8.14
	18	.215	.5569	.0151	8.88	18 36.5	.2737	18 6.2	8.15
	19	.221	.5564	.0150	8.90	18 37.6	.2736	18 1.9	8.15
	20	.228	.5558	.0150	8.91	18 38.6	.2736	17 57.6	8.15
	21	+0.234	−0.5553	+0.0151	8.92	18 39.7	1.2737	17 53.3	−8.15
	22	.241	.5548	.0153	8.93	18 40.8	.2737	17 48.9	8.14
	23	.248	.5543	.0155	8.94	18 41.9	.2738	17 44.6	8.13
	24	.254	.5538	.0157	8.95	18 42.9	.2739	17 40.3	8.12
	25	.261	.5534	.0160	8.95	18 44.0	.2740	17 36.0	8.11
	26	.267	.5530	.0163	8.96	18 45.1	.2742	17 31.7	8.09
	27	.274	.5527	.0167	8.97	18 46.2	.2743	17 27.4	8.08
	28	.281	.5523	.0171	8.98	18 47.3	.2745	17 23.1	8.06
	29	.287	.5520	.0176	8.98	18 48.4	.2747	17 18.8	8.04
	30	.294	.5516	.0181	8.99	18 49.5	.2750	17 14.5	8.01
	31	+0.301	−0.5513	+0.0187	9.00	18 50.6	1.2752	17 10.3	−7.99
April	1	.308	.5510	.0194	9.00	18 51.8	.2755	17 6.0	7.96
	2	.315	.5507	.0201	9.01	18 52.9	.2758	17 1.8	7.93
	3	.321	.5504	.0209	9.01	18 54.1	.2761	16 57.5	7.89
	4	.328	.5502	.0217	9.02	18 55.2	.2765	16 53.3	7.86
	5	.335	.5499	.0226	9.02	18 56.4	.2769	16 49.1	7.82
	6	.342	.5497	.0235	9.03	18 57.6	.2773	16 44.8	7.78
	7	.349	.5495	.0245	9.03	18 58.7	.2777	16 40.6	7.74
	8	.357	.5493	.0255	9.04	18 59.9	.2781	16 36.4	7.69
	9	.364	.5491	.0265	9.04	19 1.1	.2785	16 32.3	7.64
	10	+0.371	−0.5489	+0.0276	9.04	19 2.4	1.2790	16 28.1	−7.59
	11	.378	.5487	.0287	9.05	19 3.6	.2794	16 23.9	7.54
	12	.386	.5485	.0298	9.05	19 4.8	.2799	16 19.8	7.49
	13	.393	.5483	.0310	9.06	19 6.1	.2804	16 15.6	7.43
	14	.401	.5482	.0322	9.06	19 7.3	.2809	16 11.5	7.37
	15	.408	.5480	.0334	9.06	19 8.6	.2814	16 7.4	7.31
	16	.416	.5478	.0347	9.07	19 9.9	.2820	16 3.3	7.25
	17	.424	.5476	.0360	9.07	19 11.2	.2825	15 59.2	7.19
	18	.431	.5474	.0373	9.07	19 12.5	.2831	15 55.1	7.12
	19	.439	.5472	.0387	9.08	19 13.9	.2836	15 51.0	7.05

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	20	+0.447	−0.5470	+0.0401	9.08	$19^h15^m.3$	1.2842	$15^h47^m.0$	−6.98
	21	.455	.5468	.0415	9.09	19 16.6	.2848	15 42.9	6.91
	22	.463	.5466	.0429	9.09	19 18.0	.2854	15 38.9	6.84
	23	.472	.5464	.0444	9.10	19 19.4	.2860	15 34.9	6.76
	24	.480	.5461	.0459	9.10	19 20.8	.2866	15 30.9	6.68
	25	.488	.5458	.0474	9.11	19 22.2	.2873	15 26.9	6.60
	26	.497	.5455	.0489	9.11	19 23.6	.2879	15 22.9	6.52
	27	.505	.5452	.0504	9.12	19 25.0	.2885	15 19.0	6.43
	28	.514	.5448	.0519	9.13	19 26.5	.2891	15 15.0	6.35
	29	.522	.5444	.0535	9.13	19 27.9	.2898	15 11.1	6.26
	30	+0.531	−0.5440	+0.0550	9.14	19 29.4	1.2904	15 7.2	−6.17
Mai	1	.540	.5436	.0565	9.15	19 30.9	.2910	15 3.3	6.08
	2	.549	.5432	.0580	9.16	19 32.4	.2917	14 59.4	5.99
	3	.558	.5427	.0596	9.17	19 33.9	.2923	14 55.5	5.90
	4	.567	.5422	.0611	9.18	19 35.4	.2929	14 51.6	5.80
	5	.576	.5417	.0627	9.19	19 36.9	.2936	14 47.8	5.70
	6	.586	.5411	.0642	9.20	19 38.4	.2942	14 44.0	5.60
	7	.595	.5405	.0658	9.21	19 40.0	.2948	14 40.1	5.50
	8	.604	.5399	.0673	9.23	19 41.5	.2954	14 36.3	5.40
	9	.614	.5392	.0688	9.24	19 43.1	.2960	14 32.5	5.30
	10	+0.624	−0.5385	+0.0703	9.25	19 44.7	1.2967	14 28.7	−5.19
	11	.633	.5378	.0718	9.27	19 46.2	.2973	14 24.9	5.09
	12	.643	.5370	.0732	9.28	19 47.8	.2978	14 21.1	4.98
	13	.653	.5362	.0747	9.30	19 49.4	.2984	14 17.4	4.87
	14	.663	.5354	.0761	9.32	19 51.0	.2990	14 13.6	4.76
	15	.673	.5345	.0775	9.33	19 52.6	.2996	14 9.9	4.64
	16	.683	.5335	.0789	9.35	19 54.2	.3002	14 6.2	4.53
	17	.693	.5325	.0803	9.37	19 55.8	.3007	14 2.5	4.42
	18	.704	.5314	.0817	9.40	19 57.3	.3013	13 58.8	4.30
	19	.714	.5303	.0830	9.42	19 58.9	.3018	13 55.1	4.19
	20	+0.724	−0.5292	+0.0843	9.44	20 0.5	1.3023	13 51.4	−4.07
	21	.735	.5280	.0856	9.46	20 2.1	.3028	13 47.8	3.95
	22	.746	.5268	.0869	9.49	20 3.7	.3033	13 44.1	3.83
	23	.756	.5255	.0881	9.51	20 5.3	.3038	13 40.5	3.71
	24	.767	.5242	.0893	9.54	20 6.9	.3043	13 36.8	3.58
	25	.778	.5228	.0905	9.57	20 8.4	.3048	13 33.2	3.46
	26	.789	.5214	.0916	9.60	20 10.0	.3052	13 29.6	3.34
	27	.800	.5199	.0927	9.63	20 11.6	.3057	13 26.0	3.22
	28	.811	.5183	.0938	9.66	20 13.1	.3061	13 22.4	3.09
	29	.822	.5168	.0948	9.69	20 14.7	.3065	13 18.8	2.96
	30	+0.833	−0.5152	+0.0958	9.72	20 16.2	1.3069	13 15.2	−2.83
	31	.844	.5135	.0968	9.76	20 17.8	.3073	13 11.6	2.71
Juni	1	.855	.5118	.0977	9.79	20 19.3	.3076	13 8.0	2.58
	2	.866	.5100	.0986	9.82	20 20.8	.3080	13 4.5	2.45
	3	.878	.5081	.0994	9.86	20 22.3	.3083	13 0.9	2.32
	4	.889	.5062	.1002	9.90	20 23.7	.3086	12 57.4	2.19
	5	.900	.5043	.1009	9.94	20 25.2	.3089	12 53.8	2.06
	6	.912	.5023	.1016	9.98	20 26.7	.3092	12 50.3	1.92
	7	.923	.5003	.1022	10.02	20 28.1	.3094	12 46.7	1.79
	8	.935	.4982	.1028	10.06	20 29.6	.3097	12 43.2	1.66

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	9	+0.946	−0.4961	+0.1034	10.″10	$20^h31^m.0$	1.3099	$12^h39^m.7$	−1.″53
	10	.958	.4939	.1039	10.15	20 32.4	.3101	12 36.1	1.39
	11	.970	.4917	.1044	10.19	20 33.7	.3103	12 32.6	1.26
	12	.981	.4894	.1048	10.24	20 35.1	.3105	12 29.1	1.12
	13	0.993	.4871	.1052	10.28	20 36.4	.3106	12 25.6	0.99
	14	1.005	.4847	.1055	10.33	20 37.8	.3107	12 22.1	0.85
	15	.016	.4823	.1058	10.38	20 39.1	.3108	12 18.6	0.72
	16	.028	.4799	.1060	10.43	20 40.4	.3109	12 15.1	0.58
	17	.040	.4774	.1062	10.48	20 41.6	.3110	12 11.6	0.45
	18	.052	.4749	.1063	10.53	20 42.9	.3111	12 8.1	0.31
	19	+1.063	−0.4723	+0.1064	10.58	20 44.1	1.3111	12 4.6	−0.18
	20	.075	.4697	.1065	10.63	20 45.3	.3111	12 1.1	−0.04
	21	.087	.4670	.1065	10.69	20 46.5	.3111	11 57.6	+0.09
	22	.099	.4643	.1064	10.74	20 47.7	.3111	11 54.1	0.23
	23	.110	.4616	.1063	10.80	20 48.8	.3111	11 50.6	0.36
	24	.122	.4589	.1062	10.85	20 50.0	.3110	11 47.1	0.50
	25	.134	.4561	.1060	10.91	20 51.1	.3109	11 43.6	0.63
	26	.145	.4533	.1057	10.96	20 52.1	.3108	11 40.1	0.77
	27	.157	.4505	.1054	11.02	20 53.2	.3107	11 36.6	0.91
	28	.169	.4476	.1051	11.08	20 54.2	.3106	11 33.0	1.04
	29	+1.180	−0.4447	+0.1047	11.14	20 55.3	1.3104	11 29.5	+1.17
	30	.192	.4418	.1043	11.19	20 56.3	.3102	11 26.0	1.31
Juli	1	.203	.4388	.1038	11.25	20 57.3	.3100	11 22.5	1.44
	2	.215	.4358	.1033	11.31	20 58.2	.3098	11 19.0	1.58
	3	.227	.4328	.1027	11.37	20 59.2	.3096	11 15.5	1.71
	4	.238	.4298	.1021	11.43	21 0.1	.3094	11 12.0	1.84
	5	.250	.4268	.1014	11.49	21 1.0	.3091	11 8.4	1.98
	6	.261	.4238	.1007	11.55	21 1.9	.3088	11 4.9	2.11
	7	.272	.4207	.0999	11.62	21 2.7	.3085	11 1.4	2.24
	8	.284	.4176	.0991	11.68	21 3.5	.3082	10 57.8	2.37
	9	+1.295	−0.4145	+0.0983	11.74	21 4.3	1.3079	10 54.3	+2.50
	10	.306	.4113	.0974	11.80	21 5.1	.3075	10 50.7	2.62
	11	.317	.4082	.0965	11.87	21 5.9	.3072	10 47.1	2.75
	12	.329	.4051	.0955	11.93	21 6.7	.3068	10 43.6	2.88
	13	.340	.4020	.0945	11.99	21 7.4	.3064	10 40.0	3.00
	14	.351	.3989	.0935	12.05	21 8.1	.3060	10 36.4	3.13
	15	.362	.3957	.0924	12.12	21 8.8	.3055	10 32.8	3.25
	16	.372	.3925	.0913	12.18	21 9.5	.3051	10 29.3	3.38
	17	.383	.3893	.0902	12.24	21 10.2	.3047	10 25.7	3.50
	18	.394	.3861	.0890	12.31	21 10.8	.3042	10 22.0	3.63
	19	+1.405	−0.3830	+0.0878	12.37	21 11.5	1.3037	10 18.4	+3.75
	20	.415	.3798	.0866	12.43	21 12.1	.3033	10 14.8	3.87
	21	.426	.3767	.0854	12.50	21 12.7	.3028	10 11.2	3.98
	22	.437	.3736	.0841	12.56	21 13.3	.3022	10 7.5	4.10
	23	.447	.3705	.0828	12.62	21 13.8	.3017	10 3.8	4.22
	24	.457	.3674	.0814	12.69	21 14.4	.3012	10 0.2	4.34
	25	.468	.3642	.0800	12.75	21 14.9	.3006	9 56.5	4.45
	26	.478	.3610	.0786	12.81	21 15.4	.3000	9 52.8	4.56
	27	.488	.3578	.0772	12.88	21 15.9	.2995	9 49.1	4.67
	28	.498	.3547	.0758	12.94	21 16.4	.2989	9 45.4	4.78

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	29	$+1^s.508$	−0.3516	+0.0744	13.″00	$21^h16^m.9$	1.2983	$9^h41^m.7$	+4.″89
	30	.518	.3485	.0730	13.06	21 17.4	.2978	9 38.0	5.00
	31	.527	.3454	.0715	13.13	21 17.8	.2972	9 34.2	5.11
August	1	.537	.3423	.0700	13.19	21 18.3	.2966	9 30.5	5.21
	2	.547	.3393	.0685	13.25	21 18.7	.2959	9 26.7	5.32
	3	.556	.3363	.0670	13.31	21 19.1	.2953	9 22.9	5.42
	4	.566	.3333	.0655	13.37	21 19.5	.2947	9 19.2	5.52
	5	.575	.3303	.0639	13.43	21 19.9	.2941	9 15.4	5.62
	6	.584	.3273	.0624	13.49	21 20.3	.2935	9 11.5	5.72
	7	.594	.3243	.0609	13.55	21 20.7	.2929	9 7.7	5.82
	8	+1.603	−0.3214	+0.0594	13.61	21 21.1	1.2922	9 3.9	+5.91
	9	.612	.3185	.0578	13.67	21 21.4	.2916	9 0.0	6.00
	10	.620	.3156	.0563	13.72	21 21.8	.2910	8 56.2	6.09
	11	.629	.3127	.0548	13.78	21 22.1	.2903	8 52.3	6.18
	12	.638	.3098	.0533	13.84	21 22.5	.2897	8 48.4	6.27
	13	.647	.3070	.0517	13.90	21 22.8	.2891	8 44.5	6.36
	14	.655	.3042	.0502	13.95	21 23.1	.2885	8 40.6	6.44
	15	.664	.3014	.0487	14.01	21 23.5	.2878	8 36.7	6.53
	16	.672	.2986	.0472	14.06	21 23.8	.2872	8 32.8	6.61
	17	.681	.2958	.0457	14.12	21 24.1	.2866	8 28.8	6.69
	18	+1.689	−0.2931	+0.0443	14.17	21 24.4	1.2860	8 24.8	+6.76
	19	.697	.2904	.0429	14.23	21 24.7	.2854	8 20.9	6.84
	20	.705	.2878	.0415	14.28	21 25.0	.2848	8 16.9	6.91
	21	.713	.2852	.0401	14.33	21 25.2	.2842	8 12.9	6.98
	22	.721	.2826	.0387	14.38	21 25.5	.2837	8 8.9	7.05
	23	.729	.2800	.0373	14.44	21 25.8	.2831	8 4.8	7.12
	24	.737	.2775	.0360	14.49	21 26.1	.2825	8 0.8	7.19
	25	.745	.2749	.0347	14.54	21 26.4	.2820	7 56.7	7.25
	26	.752	.2724	.0334	14.59	21 26.7	.2814	7 52.7	7.31
	27	.760	.2699	.0322	14.64	21 26.9	.2809	7 48.6	7.37
	28	+1.768	−0.2675	+0.0310	14.69	21 27.2	1.2804	7 44.5	+7.43
	29	.775	.2651	.0298	14.74	21 27.5	.2799	7 40.4	7.49
	30	.782	.2627	.0287	14.78	21 27.7	.2795	7 36.3	7.54
	31	.790	.2604	.0276	14.83	21 28.0	.2790	7 32.2	7.59
Septbr.	1	.797	.2581	.0265	14.88	21 28.3	.2785	7 28.1	7.64
	2	.804	.2558	.0255	14.92	21 28.6	.2781	7 24.0	7.69
	3	.811	.2535	.0245	14.97	21 28.8	.2777	7 19.8	7.73
	4	.819	.2513	.0236	15.01	21 29.1	.2773	7 15.7	7.77
	5	.826	.2491	.0227	15.06	21 29.4	.2769	7 11.5	7.81
	6	.833	.2469	.0219	15.10	21 29.7	.2766	7 7.3	7.85
	7	+1.840	−0.2448	+0.0211	15.14	21 30.0	1.2762	7 3.2	+7.89
	8	.847	.2427	.0203	15.19	21 30.2	.2759	6 59.0	7.92
	9	.854	.2406	.0196	15.23	21 30.5	.2756	6 54.8	7.95
	10	.860	.2385	.0189	15.27	21 30.8	.2753	6 50.6	7.98
	11	.867	.2364	.0183	15.31	21 31.1	.2750	6 46.3	8.01
	12	.874	.2344	.0177	15.35	21 31.4	.2748	6 42.1	8.03
	13	.881	.2324	.0172	15.39	21 31.7	.2746	6 37.9	8.05
	14	.888	.2304	.0167	15.43	21 32.0	.2744	6 33.6	8.07
	15	.894	.2285	.0163	15.47	21 32.3	.2742	6 29.4	8.09
	16	.901	.2266	.0160	15.51	21 32.7	.2741	6 25.1	8.11

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	17	+1.908	−0.2247	+0.0157	15.55	21h33m0	1.2739	6h20m9	+8.12
	18	.914	.2228	.0155	15.58	21 33.3	.2738	6 16.6	8.13
	19	.921	.2209	.0153	15.62	21 33.6	.2738	6 12.4	8.14
	20	.928	.2190	.0152	15.66	21 34.0	.2737	6 8.1	8.14
	21	.934	.2172	.0151	15.70	21 34.3	.2737	6 3.8	8.15
	22	.941	.2154	.0151	15.73	21 34.6	.2737	5 59.6	8.15
	23	.948	.2136	.0151	15.77	21 35.0	.2737	5 55.3	8.15
	24	.954	.2118	.0152	15.80	21 35.4	.2737	5 51.0	8.14
	25	.961	.2101	.0153	15.84	21 35.7	.2738	5 46.7	8.14
	26	.968	.2083	.0155	15.87	21 36.1	.2738	5 42.4	8.13
	27	+1.974	−0.2066	+0.0157	15.91	21 36.5	1.2739	5 38.1	+8.12
	28	.981	.2048	.0160	15.94	21 36.9	.2741	5 33.9	8.11
	29	.988	.2031	.0164	15.98	21 37.3	.2742	5 29.6	8.09
	30	1.994	.2014	.0169	16.01	21 37.7	.2744	5 25.3	8.07
Oktbr.	1	2.001	.1997	.0174	16.05	21 38.1	.2746	5 21.0	8.05
	2	.008	.1980	.0179	16.08	21 38.5	.2749	5 16.8	8.03
	3	.015	.1963	.0185	16.11	21 38.9	.2751	5 12.5	8.00
	4	.021	.1946	.0191	16.15	21 39.3	.2754	5 8.2	7.97
	5	.028	.1929	.0198	16.18	21 39.8	.2757	5 4.0	7.94
	6	.035	.1913	.0205	16.22	21 40.2	.2760	4 59.7	7.91
	7	+2.042	−0.1896	+0.0213	16.25	21 40.7	1.2763	4 55.5	+7.87
	8	.049	.1880	.0222	16.28	21 41.1	.2767	4 51.2	7.84
	9	.056	.1863	.0231	16.32	21 41.6	.2771	4 46.9	7.80
	10	.064	.1847	.0240	16.35	21 42.1	.2775	4 42.7	7.76
	11	.071	.1830	.0250	16.38	21 42.6	.2779	4 38.4	7.71
	12	.078	.1814	.0260	16.42	21 43.0	.2783	4 34.2	7.67
	13	.085	.1797	.0271	16.45	21 43.5	.2787	4 30.0	7.72
	14	.093	.1780	.0282	16.48	21 44.0	.2792	4 25.8	7.57
	15	.100	.1763	.0293	16.52	21 44.5	.2797	4 21.5	7.51
	16	.108	.1746	.0305	16.55	21 45.0	.2802	4 17.3	7.46
	17	+2.115	−0.1729	+0.0317	16.59	21 45.6	1.2807	4 13.1	+7.40
	18	.123	.1712	.0330	16.62	21 46.1	.2813	4 9.0	7.34
	19	.131	.1694	.0343	16.66	21 46.6	.2818	4 4.8	7.27
	20	.138	.1677	.0356	16.69	21 47.2	.2824	4 0.6	7.21
	21	.146	.1659	.0370	16.73	21 47.7	.2829	3 56.4	7.14
	22	.154	.1641	.0384	16.76	21 48.3	.2835	3 52.3	7.07
	23	.162	.1623	.0398	16.80	21 48.8	.2841	3 48.1	7.00
	24	.171	.1605	.0412	16.83	21 49.4	.2847	3 44.0	6.93
	25	.179	.1586	.0426	16.87	21 50.0	.2853	3 39.8	6.85
	26	.187	.1567	.0441	16.91	21 50.6	.2859	3 35.7	6.77
	27	+2.196	−0.1548	+0.0456	16.95	21 51.2	1.2865	3 31.6	+6.69
	28	.204	.1529	.0471	16.99	21 51.7	.2872	3 27.5	6.61
	29	.213	.1510	.0487	17.02	21 52.3	.2878	3 23.4	6.53
	30	.222	.1490	.0502	17.06	21 52.9	.2885	3 19.3	6.44
	31	.230	.1470	.0518	17.10	21 53.5	.2891	3 15.2	6.35
Novbr.	1	.239	.1450	.0534	17.14	21 54.1	.2898	3 11.2	6.26
	2	.248	.1429	.0550	17.19	21 54.7	.2904	3 7.1	6.17
	3	.257	.1408	.0566	17.23	21 55.3	.2911	3 3.1	6.08
	4	.266	.1387	.0582	17.27	21 55.9	.2917	2 59.1	5.98
	5	.276	.1366	.0598	17.31	21 56.5	.2924	2 55.0	5.88

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	6	$+2^s.285$	−0.1345	+0.0614	17″.35	$21^h57^m.1$	1.2930	$2^h51^m.0$	+5″.78
	7	.294	.1323	.0630	17.40	21 57.8	.2937	2 47.0	5.68
	8	.304	.1301	.0646	17.44	21 58.4	.2944	2 43.0	5.58
	9	.314	.1278	.0662	17.49	21 59.0	.2950	2 39.0	5.47
	10	.323	.1255	.0678	17.54	21 59.6	.2957	2 35.1	5.37
	11	.333	.1232	.0694	17.58	22 0.2	.2963	2 31.1	5.26
	12	.343	.1208	.0709	17.63	22 0.8	.2969	2 27.2	5.15
	13	.353	.1184	.0724	17.68	22 1.4	.2975	2 23.2	5.04
	14	.363	.1159	.0739	17.73	22 2.0	.2981	2 19.3	4.92
	15	.373	.1134	.0754	17.78	22 2.7	.2988	2 15.4	4.81
	16	+2.384	−0.1109	+0.0769	17.83	22 3.3	1.2994	2 11.4	+4.69
	17	.394	.1083	.0784	17.88	22 3.9	.2999	2 7.5	4.57
	18	.405	.1057	.0799	17.93	22 4.5	.3005	2 3.6	4.45
	19	.415	.1031	.0813	17.98	22 5.1	.3011	1 59.8	4.33
	20	.426	.1004	.0827	18.04	22 5.7	.3017	1 55.9	4.21
	21	.437	.0977	.0841	18.09	22 6.3	.3023	1 52.0	4.09
	22	.448	.0949	.0855	18.15	22 6.9	.3028	1 48.2	3.96
	23	.459	.0921	.0868	18.20	22 7.5	.3033	1 44.3	3.83
	24	.470	.0893	.0881	18.26	22 8.1	.3039	1 40.5	3.71
	25	.481	.0864	.0894	18.32	22 8.6	.3044	1 36.6	3.58
	26	+2.492	−0.0835	+0.0906	18.38	22 9.2	1.3048	1 32.8	+3.45
	27	.503	.0805	.0918	18.44	22 9.8	.3053	1 29.0	3.32
	28	.515	.0775	.0930	18.50	22 10.3	.3058	1 25.2	3.19
	29	.526	.0745	.0941	18.56	22 10.9	.3062	1 21.4	3.05
	30	.537	.0714	.0952	18.62	22 11.4	.3066	1 17.5	2.92
Dezbr.	1	.549	.0683	.0962	18.68	22 12.0	.3070	1 13.7	2.78
	2	.561	.0652	.0972	18.74	22 12.5	.3074	1 9.9	2.65
	3	.572	.0621	.0981	18.81	22 13.1	.3078	1 6.2	2.51
	4	.584	.0589	.0990	18.87	22 13.6	.3082	1 2.4	2.37
	5	.596	.0557	.0998	18.94	22 14.1	.3085	0 58.6	2.24
	6	+2.608	−0.0524	+0.1006	19.00	22 14.6	1.3088	0 54.8	+2.10
	7	.620	.0491	.1014	19.07	22 15.1	.3091	0 51.1	1.95
	8	.632	.0458	.1021	19.13	22 15.6	.3094	0 47.3	1.81
	9	.644	.0424	.1028	19.20	22 16.1	.3097	0 43.5	1.67
	10	.656	.0390	.1034	19.27	22 16.5	.3099	0 39.8	1.53
	11	.668	.0356	.1039	19.34	22 17.0	.3101	0 36.0	1.39
	12	.680	.0322	.1044	19.41	22 17.4	.3103	0 32.3	1.25
	13	.692	.0287	.1048	19.48	22 17.9	.3105	0 28.5	1.10
	14	.704	.0252	.1052	19.55	22 18.3	.3106	0 24.8	0.96
	15	.716	.0217	.1056	19.62	22 18.7	.3108	0 21.1	0.82
	16	+2.728	−0.0181	+0.1059	19.69	22 19.2	1.3109	0 17.3	+0.67
	17	.741	.0145	.1061	19.76	22 19.6	.3110	0 13.6	0.53
	18	.753	.0109	.1063	19.83	22 20.0	.3110	0 9.9	0.38
	19	.765	.0073	.1064	19.91	22 20.4	.3111	0 6.1	0.24
	20	.778	−0.0036	.1064	19.98	22 20.7	.3111	0 2.4	+0.09
	21	.790	0.0000	.1064	20.05	22 21.1	.3111	23 58.7	−0.05
	22	.802	+0.0037	.1064	20.13	22 21.5	.3111	23 54.9	0.20
	23	.814	.0074	.1063	20.20	22 21.8	.3111	23 51.2	0.34
	24	.827	.0111	.1062	20.27	22 22.1	.3110	23 47.4	0.49
	25	.839	.0148	.1060	20.35	22 22.5	.3109	23 43.7	0.63

1856

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	26	$+2^s.851$	+0.0185	+0.1057	20″.42	$22^h22^m.8$	1.3108	$23^h39^m.9$	−0″.78
	27	.863	.0222	.1054	20.50	22 23.1	.3107	23 36.2	0.92
	28	.875	.0260	.1050	20.57	22 23.4	.3105	23 32.4	1.06
	29	.888	.0297	.1046	20.65	22 23.7	.3104	23 28.7	1.21
	30	.900	.0335	.1042	20.72	22 24.0	.3102	23 24.9	1.35
	31	.912	.0373	.1037	20.80	22 24.3	.3100	23 21.2	1.49

1857

Januar	1	$-0^s.147$	−0.5759	+0.1029	8″.50	$17^h34^m.1$	1.3097	$23^h17^m.4$	−1″.63
	2	.135	.5758	.1023	8.51	17 36.2	.3095	23 13.6	1.77
	3	.123	.5757	.1016	8.51	17 38.3	.3092	23 9.9	1.92
	4	.111	.5755	.1009	8.51	17 40.4	.3089	23 6.1	2.06
	5	.100	.5752	.1001	8.52	17 42.5	.3086	23 2.3	2.20
	6	.088	.5749	.0992	8.52	17 44.6	.3083	22 58.5	2.34
	7	.076	.5745	.0983	8.53	17 46.7	.3079	22 54.7	2.47
	8	.064	.5741	.0974	8.54	17 48.8	.3075	22 50.9	2.61
	9	.053	.5736	.0964	8.55	17 50.8	.3072	22 47.1	2.75
	10	.041	.5730	.0954	8.56	17 52.8	.3068	22 43.3	2.89
	11	−0.030	−0.5724	+0.0944	8.57	17 54.9	1.3063	22 39.5	−3.02
	12	.018	.5717	.0933	8.59	17 56.9	.3059	22 35.7	3.16
	13	−0.007	.5710	.0921	8.60	17 58.9	.3054	22 31.8	3.29
	14	+0.005	.5702	.0909	8.62	18 0.9	.3049	22 28.0	3.42
	15	.016	.5693	.0897	8.64	18 2.8	.3045	22 24.2	3.55
	16	.027	.5684	.0884	8.65	18 4.7	.3040	22 20.3	3.68
	17	.038	.5674	.0871	8.67	18 6.6	.3035	22 16.4	3.81
	18	.049	.5664	.0858	8.70	18 8.5	.3029	22 12.5	3.94
	19	.060	.5653	.0845	8.72	18 10.4	.3024	22 8.7	4.06
	20	.071	.5642	.0831	8.74	18 12.2	.3018	22 4.8	4.19
	21	+0.082	−0.5631	+0.0817	8.76	18 14.0	1.3013	22 0.9	−4.31
	22	.092	.5619	.0802	8.78	18 15.8	.3007	21 57.0	4.43
	23	.103	.5607	.0787	8.81	18 17.6	.3001	21 53.1	4.55
	24	.113	.5594	.0772	8.83	18 19.3	.2995	21 49.1	4.67
	25	.124	.5581	.0758	8.86	18 21.0	.2989	21 45.2	4.79
	26	.134	.5568	.0743	8.89	18 22.7	.2983	21 41.2	4.91
	27	.144	.5555	.0728	8.91	18 24.3	.2977	21 37.3	5.02
	28	.154	.5541	.0712	8.94	18 25.9	.2970	21 33.3	5.14
	29	.164	.5527	.0695	8.97	18 27.5	.2964	21 29.3	5.25
	30	.174	.5513	.0679	9.00	18 29.1	.2957	21 25.3	5.36
	31	+0.184	−0.5499	+0.0663	9.03	18 30.7	1.2951	21 21.3	−5.47
Februar	1	.194	.5484	.0647	9.06	18 32.2	.2944	21 17.3	5.57
	2	.204	.5469	.0631	9.08	18 33.7	.2937	21 13.3	5.67
	3	.213	.5454	.0615	9.11	18 35.1	.2931	21 9.2	5.78
	4	.223	.5439	.0599	9.14	18 36.6	.2924	21 5.2	5.88
	5	.232	.5424	.0583	9.18	18 38.0	.2918	21 1.1	5.98
	6	.241	.5408	.0567	9.21	18 39.4	.2911	20 57.1	6.07
	7	.250	.5393	.0551	9.24	18 40.8	.2904	20 53.0	6.17
	8	.259	.5377	.0535	9.27	18 42.1	.2898	20 48.9	6.26
	9	.268	.5362	.0519	9.30	18 43.4	.2891	20 44.8	6.35

1857

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 10	+0.8277	−0.5347	+0.0503	9.″33	$18^h44^m.7$	1.2885	$20^h40^m.7$	−6.″44
11	.286	.5332	.0488	9.36	18 46.0	.2878	20 36.6	6.53
12	.294	.5317	.0472	9.39	18 47.2	.2872	20 32.5	6.61
13	.303	.5302	.0457	9.42	18 48.4	.2866	20 28.3	6.70
14	.311	.5286	.0441	9.45	18 49.6	.2859	20 24.1	6.78
15	.320	.5271	.0426	9.48	18 50.8	.2853	20 20.0	6.85
16	.328	.5255	.0411	9.51	18 52.0	.2847	20 15.8	6.93
17	.336	.5240	.0397	9.54	18 53.2	.2841	20 11.6	7.01
18	.344	.5225	.0383	9.57	18 54.3	.2835	20 7.4	7.08
19	.352	.5210	.0369	9.60	18 55.4	.2829	20 3.2	7.15
20	+0.360	−0.5195	+0.0355	9.63	18 56.5	1.2823	19 59.0	−7.22
21	.368	.5181	.0342	9.66	18 57.6	.2818	19 54.8	7.28
22	.376	.5167	.0328	9.69	18 58.6	.2812	19 50.6	7.34
23	.383	.5153	.0315	9.72	18 59.7	.2806	19 46.3	7.41
24	.391	.5139	.0302	9.75	19 0.8	.2801	19 42.1	7.46
25	.399	.5125	.0290	9.78	19 1.8	.2796	19 37.8	7.52
26	.406	.5111	.0279	9.80	19 2.8	.2791	19 33.5	7.57
27	.413	.5097	.0268	9.83	19 3.8	.2787	19 29.3	7.63
28	.421	.5084	.0258	9.86	19 4.7	.2782	19 25.0	7.68
März 1	.428	.5071	.0248	9.88	19 5.7	.2778	19 20.7	7.72
2	+0.435	−0.5058	+0.0238	9.91	19 6.7	1.2774	19 16.4	−7.77
3	.443	.5046	.0229	9.93	19 7.6	.2770	19 12.1	7.81
4	.450	.5034	.0220	9.96	19 8.6	.2766	19 7.8	7.85
5	.457	.5022	.0212	9.98	19 9.5	.2763	19 3.5	7.88
6	.464	.5010	.0204	10.01	19 10.4	.2759	19 59.2	7.92
7	.470	.4998	.0196	10.03	19 11.4	.2756	18 54.9	7.95
8	.477	.4987	.0189	10.05	19 12.3	.2753	18 50.6	7.98
9	.484	.4976	.0183	10.07	19 13.2	.2750	18 46.2	8.01
10	.491	.4966	.0177	10.10	19 14.1	.2748	18 41.9	8.03
11	.498	.4956	.0172	10.12	19 15.0	.2745	18 37.6	8.06
12	+0.505	−0.4945	+0.0167	10.14	19 15.9	1.2743	18 33.3	−8.08
13	.512	.4934	.0163	10.16	19 16.8	.2742	18 28.9	8.09
14	.519	.4924	.0159	10.18	19 17.7	.2740	18 24.6	8.11
15	.525	.4915	.0156	10.20	19 18.6	.2739	18 20.3	8.12
16	.532	.4906	.0154	10.21	19 19.5	.2738	18 15.9	8.13
17	.539	.4897	.0152	10.23	19 20.4	.2737	18 11.6	8.14
18	.545	.4888	.0151	10.25	19 21.3	.2737	18 7.3	8.14
19	.552	.4880	.0150	10.27	19 22.2	.2736	18 3.0	8.15
20	.559	.4872	.0150	10.28	19 23.1	.2736	17 58.6	8.15
21	.565	.4864	.0151	10.30	19 24.0	.2737	17 54.3	8.15
22	+0.572	−0.4856	+0.0152	10.32	19 24.9	1.2737	17 50.0	−8.14
23	.579	.4849	.0154	10.33	19 25.8	.2738	17 45.7	8.13
24	.585	.4841	.0156	10.35	19 26.7	.2739	17 41.3	8.12
25	.592	.4834	.0159	10.36	19 27.6	.2740	17 37.0	8.11
26	.599	.4827	.0162	10.37	19 28.6	.2742	17 32.7	8.10
27	.606	.4820	.0166	10.39	19 29.5	.2743	17 28.4	8.08
28	.612	.4813	.0170	10.40	19 30.4	.2745	17 24.1	8.06
29	.619	.4807	.0175	10.41	19 31.4	.2747	17 19.8	8.04
30	.626	.4801	.0180	10.43	19 32.3	.2749	17 15.6	8.02
31	.633	.4795	.0186	10.44	19 33.3	.2751	17 11.3	7.99

1857

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	1	+0.640	−0.4789	+0.0192	10.″45	19h34m.3	1.2754	17h 7m.1	−7.″96
	2	.647	.4783	.0199	10.46	19 35.3	.2757	17 2.8	7.93
	3	.654	.4777	.0207	10.47	19 36.2	.2761	16 58.6	7.90
	4	.661	.4772	.0215	10.48	19 37.2	.2764	16 54.3	7.87
	5	.668	.4766	.0224	10.49	19 38.2	.2768	16 50.1	7.83
	6	.675	.4761	.0233	10.51	19 39.2	.2772	16 45.9	7.79
	7	.682	.4755	.0242	10.52	19 40.2	.2776	16 41.7	7.75
	8	.689	.4750	.0252	10.53	19 41.2	.2780	16 37.5	7.70
	9	.696	.4745	.0262	10.54	19 42.3	.2784	16 33.3	7.65
	10	.704	.4740	.0273	10.55	19 43.3	.2789	16 29.1	7.60
	11	+0.711	−0.4735	+0.0284	10.56	19 44.4	1.2793	16 24.9	−7.55
	12	.718	.4730	.0295	10.57	19 45.4	.2798	16 20.8	7.50
	13	.726	.4725	.0307	10.58	19 46.5	.2803	16 16.6	7.44
	14	.734	.4720	.0319	10.59	19 47.6	.2808	16 12.5	7.39
	15	.741	.4715	.0331	10.60	19 48.7	.2813	16 8.4	7.33
	16	.749	.4710	.0344	10.61	19 49.8	.2818	16 4.3	7.27
	17	.757	.4705	.0357	10.62	19 50.9	.2824	16 0.2	7.20
	18	.764	.4699	.0370	10.63	19 52.0	.2829	15 56.1	7.14
	19	.772	.4694	.0383	10.64	19 53.2	.2835	15 52.0	7.07
	20	.781	.4688	.0397	10.65	19 54.3	.2841	15 48.0	7.00
	21	+0.789	−0.4682	+0.0411	10.66	19 55.5	1.2847	15 43.9	−6.93
	22	.797	.4676	.0425	10.68	19 56.7	.2853	15 39.9	6.85
	23	.805	.4670	.0440	10.69	19 57.9	.2859	15 35.9	6.78
	24	.813	.4664	.0455	10.70	19 59.0	.2865	15 31.9	6.70
	25	.822	.4658	.0470	10.71	20 0.2	.2871	15 27.9	6.62
	26	.830	.4651	.0485	10.73	20 1.4	.2877	15 23.9	6.54
	27	.839	.4644	.0500	10.74	20 2.6	.2884	15 19.9	6.46
	28	.847	.4637	.0515	10.75	20 3.9	.2890	15 16.0	6.37
	29	.856	.4630	.0531	10.77	20 5.1	.2896	15 12.0	6.28
	30	.865	.4622	.0546	10.78	20 6.3	.2903	15 8.1	6.19
Mai	1	+0.874	−0.4614	+0.0562	10.80	20 7.6	1.2909	15 4.2	−6.10
	2	.883	.4606	.0577	10.82	20 8.8	.2915	15 0.3	6.01
	3	.892	.4598	.0593	10.83	20 10.1	.2922	14 56.4	5.92
	4	.901	.4589	.0608	10.85	20 11.4	.2928	14 52.6	5.82
	5	.910	.4580	.0624	10.87	20 12.7	.2934	14 48.7	5.73
	6	.920	.4571	.0639	10.89	20 13.9	.2940	14 44.9	5.63
	7	.929	.4561	.0654	10.91	20 15.2	.2947	14 41.1	5.53
	8	.938	.4551	.0669	10.93	20 16.5	.2953	14 37.2	5.43
	9	.948	.4541	.0684	10.95	20 17.8	.2959	14 33.4	5.32
	10	.958	.4530	.0699	10.97	20 19.1	.2965	14 29.6	5.22
	11	+0.968	−0.4519	+0.0713	10.99	20 20.4	1.2971	14 25.8	−5.11
	12	.977	.4508	.0728	11.01	20 21.7	.2977	14 22.1	5.00
	13	.987	.4496	.0743	11.03	20 23.0	.2983	14 18.3	4.89
	14	0.997	.4484	.0758	11.06	20 24.3	.2989	14 14.6	4.78
	15	1.007	.4472	.0772	11.09	20 25.7	.2994	14 10.8	4.67
	16	.017	.4459	.0786	11.11	20 27.0	.3000	14 7.1	4.56
	17	.028	.4445	.0800	11.14	20 28.3	.3006	14 3.4	4.45
	18	.038	.4431	.0814	11.17	20 29.6	.3011	13 59.7	4.33
	19	.048	.4417	.0827	11.20	20 30.9	.3017	13 56.0	4.22
	20	.059	.4402	.0840	11.23	20 32.2	.3022	13 52.3	4.10

1857

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	21	$+1^s.070$	−0.4387	+0.0853	11″.26	$20^h33^m.5$	1.3027	$13^h48^m.6$	−3″.98
	22	.080	.4371	.0866	11.29	20 34.8	.3032	13 45.0	3.86
	23	.091	.4355	.0878	11.32	20 36.1	.3037	13 41.3	3.74
	24	.102	.4338	.0890	11.35	20 37.3	.3042	13 37.7	3.61
	25	.113	.4321	.0902	11.39	20 38.6	.3047	13 34.1	3.49
	26	.124	.4303	.0913	11.42	20 39.9	.3051	13 30.5	3.37
	27	.135	.4285	.0924	11.46	20 41.1	.3056	13 26.9	3.25
	28	.146	.4267	.0935	11.50	20 42.4	.3060	13 23.3	3.12
	29	.157	.4248	.0946	11.53	20 43.7	.3064	13 19.7	2.99
	30	.168	.4229	.0956	11.57	20 44.9	.3068	13 16.1	2.86
	31	+1.179	−0.4209	+0.0966	11.61	20 46.1	1.3072	13 12.5	−2.74
Juni	1	.190	.4189	.0975	11.65	20 47.4	.3076	13 8.9	2.61
	2	.202	.4168	.0984	11.69	20 48.6	.3079	13 5.3	2.48
	3	.213	.4147	.0992	11.73	20 49.8	.3082	13 1.8	2.35
	4	.224	.4126	.1000	11.78	20 51.0	.3085	12 58.2	2.22
	5	.236	.4104	.1007	11.82	20 52.2	.3088	12 54.7	2.09
	6	.247	.4081	.1014	11.87	20 53.3	.3091	12 51.1	1.96
	7	.259	.4058	.1021	11.91	20 54.5	.3094	12 47.6	1.82
	8	.270	.4035	.1027	11.96	20 55.7	.3096	12 44.0	1.69
	9	.282	.4011	.1033	12.01	20 56.8	.3099	12 40.5	1.56
	10	+1.294	−0.3987	+0.1038	12.06	20 57.9	1.3101	12 37.0	−1.42
	11	.305	.3962	.1043	12.11	20 59.0	.3103	12 33.5	1.29
	12	.317	.3937	.1047	12.16	21 0.1	.3104	12 30.0	1.16
	13	.329	.3912	.1051	12.21	21 1.2	.3106	12 26.4	1.02
	14	.340	.3886	.1054	12.26	21 2.2	.3107	12 22.9	0.89
	15	.352	.3860	.1057	12.31	21 3.3	.3108	12 19.4	0.75
	16	.364	.3833	.1059	12.36	21 4.3	.3109	12 15.9	0.62
	17	.376	.3806	.1061	12.42	21 5.3	.3110	12 12.4	0.48
	18	.388	.3779	.1063	12.47	21 6.3	.3110	12 8.9	0.35
	19	.400	.3752	.1064	12.53	21 7.3	.3111	12 5.4	0.21
	20	+1.411	−0.3724	+0.1065	12.58	21 8.2	1.3111	12 1.9	−0.07
	21	.423	.3696	.1065	12.64	21 9.2	.3111	11 58.4	+0.06
	22	.435	.3667	.1064	12.70	21 10.1	.3111	11 54.9	0.20
	23	.447	.3638	.1063	12.76	21 11.0	.3111	11 51.4	0.33
	24	.458	.3609	.1062	12.81	21 11.9	.3110	11 47.9	0.47
	25	.470	.3579	.1060	12.87	21 12.8	.3109	11 44.4	0.60
	26	.482	.3549	.1058	12.93	21 13.7	.3108	11 40.9	0.74
	27	.494	.3519	.1055	12.99	21 14.5	.3107	11 37.4	0.87
	28	.505	.3489	.1052	13.05	21 15.3	.3106	11 33.9	1.01
	29	.517	.3460	.1048	13.11	21 16.2	.3104	11 30.4	1.14
	30	+1.529	−0.3429	+0.1044	13.17	21 17.0	1.3103	11 26.9	+1.28
Juli	1	.540	.3398	.1039	13.24	21 17.7	.3101	11 23.4	1.41
	2	.552	.3367	.1034	13.30	21 18.5	.3099	11 19.9	1.54
	3	.564	.3336	.1028	13.36	21 19.3	.3097	11 16.3	1.68
	4	.575	.3305	.1022	13.42	21 20.0	.3094	11 12.8	1.81
	5	.587	.3273	.1015	13.49	21 20.7	.3092	11 9.3	1.94
	6	.598	.3242	.1008	13.55	21 21.4	.3089	11 5.8	2.08
	7	.610	.3210	.1001	13.61	21 22.1	.3086	11 2.2	2.21
	8	.621	.3178	.0993	13.68	21 22.7	.3083	10 58.7	2.34
	9	.632	.3146	.0985	13.74	21 23.4	.3080	10 55.1	2.46

1857

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	10	$+1^s.644$	−0.3114	+0.0976	13″.80	$21^h24^m.0$	1.3076	$10^h51^m.6$	+2″.59
	11	.655	.3082	.0967	13.87	21 24.6	.3073	10 48.0	2.72
	12	.666	.3050	.0958	13.93	21 25.2	.3069	10 44.4	2.85
	13	.678	.3018	.0948	14.00	21 25.8	.3065	10 40.9	2.97
	14	.689	.2986	.0938	14.06	21 26.4	.3061	10 37.3	3.10
	15	.700	.2954	.0927	14.13	21 26.9	.3057	10 33.7	3.22
	16	.710	.2922	.0916	14.19	21 27.5	.3052	10 30.1	3.35
	17	.721	.2890	.0905	14.26	21 28.0	.3048	10 26.5	3.47
	18	.732	.2858	.0893	14.32	21 28.5	.3043	10 22.9	3.60
	19	.743	.2826	.0881	14.39	21 29.0	.3038	10 19.3	3.72
	20	+1.754	−0.2794	+0.0869	14.45	21 29.5	1.3034	10 15.7	+3.84
	21	.764	.2762	.0857	14.51	21 30.0	.3029	10 12.0	3.96
	22	.775	.2730	.0844	14.58	21 30.5	.3024	10 8.4	4.07
	23	.785	.2698	.0831	14.64	21 30.9	.3018	10 4.7	4.19
	24	.796	.2666	.0817	14.71	21 31.3	.3013	10 1.0	4.31
	25	.806	.2634	.0803	14.77	21 31.8	.3007	9 57.4	4.42
	26	.816	.2602	.0789	14.83	21 32.2	.3002	9 53.7	4.54
	27	.827	.2571	.0775	14.90	21 32.6	.2996	9 50.0	4.65
	28	.837	.2539	.0762	14.96	21 33.0	.2990	9 46.3	4.76
	29	.847	.2508	.0748	15.02	21 33.4	.2985	9 42.6	4.87
	30	+1.857	−0.2476	+0.0734	15.09	21 33.7	1.2979	9 38.9	+4.97
	31	.866	.2445	.0719	15.15	21 34.1	.2973	9 35.1	5.08
August	1	.876	.2414	.0704	15.21	21 34.5	.2967	9 31.4	5.19
	2	.886	.2384	.0688	15.27	21 34.8	.2961	9 27.6	5.29
	3	.895	.2353	.0673	15.33	21 35.2	.2955	9 23.9	5.40
	4	.905	.2323	.0658	15.39	21 35.5	.2949	9 20.1	5.50
	5	.914	.2292	.0643	15.45	21 35.8	.2942	9 16.3	5.60
	6	.924	.2262	.0628	15.51	21 36.1	.2936	9 12.5	5.70
	7	.933	.2232	.0613	15.57	21 36.4	.2930	9 8.7	5.79
	8	.942	.2203	.0598	15.63	21 36.7	.2924	9 4.8	5.89
	9	+1.951	−0.2174	+0.0582	15.69	21 37.0	1.2917	9 1.0	+5.98
	10	.960	.2145	.0567	15.75	21 37.3	.2911	8 57.1	6.07
	11	.969	.2116	.0551	15.81	21 37.6	.2905	8 53.2	6.16
	12	.978	.2088	.0536	15.86	21 37.9	.2899	8 49.3	6.25
	13	.987	.2060	.0521	15.92	21 38.1	.2892	8 45.5	6.34
	14	1.996	.2032	.0506	15.98	21 38.4	.2886	8 41.6	6.42
	15	2.004	.2004	.0491	16.03	21 38.6	.2880	8 37.6	6.51
	16	.013	.1976	.0476	16.09	21 38.9	.2874	8 33.7	6.59
	17	.021	.1948	.0461	16.15	21 39.1	.2868	8 29.8	6.67
	18	.029	.1920	.0446	16.20	21 39.4	.2861	8 25.8	6.75
	19	+2.037	−0.1893	+0.0432	16.25	21 39.6	1.2855	8 21.8	+6.82
	20	.046	.1867	.0418	16.31	21 39.9	.2850	8 17.8	6.89
	21	.054	.1841	.0404	16.36	21 40.1	.2844	8 13.9	6.97
	22	.062	.1816	.0391	16.41	21 40.3	.2838	8 9.8	7.04
	23	.070	.1790	.0377	16.46	21 40.6	.2832	8 5.8	7.11
	24	.078	.1765	.0364	16.51	21 40.8	.2827	8 1.8	7.17
	25	.085	.1740	.0351	16.56	21 41.0	.2821	7 57.7	7.24
	26	.093	.1715	.0338	16.61	21 41.3	.2816	7 53.7	7.30
	27	.101	.1690	.0325	16.66	21 41.5	.2810	7 49.6	7.36
	28	.108	.1666	.0313	16.71	21 41.7	.2805	7 45.5	7.42

1857

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	29	$+2^s.116$	−0.1642	+0.0301	16″.76	$21^h 42^m.0$	1.2800	$7^h 41^m.4$	+7″.47
	30	.123	.1619	.0290	16.81	21 42.2	.2796	7 37.3	7.52
	31	.131	.1595	.0279	16.85	21 42.4	.2791	7 33.2	7.58
Septbr.	1	.138	.1572	.0268	16.90	21 42.7	.2787	7 29.1	7.63
	2	.145	.1549	.0258	16.95	21 42.9	.2782	7 25.0	7.67
	3	.153	.1526	.0248	16.99	21 43.1	.2778	7 20.8	7.72
	4	.160	.1503	.0238	17.04	21 43.3	.2774	7 16.7	7.76
	5	.167	.1481	.0229	17.08	21 43.6	.2770	7 12.5	7.80
	6	.174	.1460	.0220	17.12	21 43.8	.2766	7 8.3	7.84
	7	.181	.1439	.0212	17.17	21 44.1	.2763	7 4.2	7.88
	8	+2.188	−0.1418	+0.0204	17.21	21 44.3	1.2760	7 0.0	+7.91
	9	.195	.1397	.0197	17.25	21 44.6	.2756	6 55.8	7.94
	10	.202	.1376	.0190	17.29	21 44.8	.2753	6 51.6	7.97
	11	.209	.1356	.0184	17.33	21 45.1	.2751	6 47.4	8.00
	12	.216	.1336	.0178	17.37	21 45.4	.2748	6 43.1	8.03
	13	.222	.1316	.0173	17.41	21 45.6	.2746	6 38.9	8.05
	14	.229	.1296	.0168	17.45	21 45.9	.2744	6 34.7	8.07
	15	.236	.1277	.0164	17.49	21 46.2	.2743	6 30.4	8.09
	16	.243	.1257	.0161	17.53	21 46.4	.2741	6 26.2	8.10
	17	.249	.1238	.0158	17.57	21 46.7	.2740	6 21.9	8.12
	18	+2.256	−0.1219	+0.0155	17.61	21 47.0	1.2739	6 17.7	+8.13
	19	.263	.1200	.0153	17.65	21 47.3	.2738	6 13.4	8.14
	20	.270	.1181	.0152	17.68	21 47.6	.2737	6 9.1	8.14
	21	.276	.1163	.0151	17.72	21 47.9	.2737	6 4.9	8.15
	22	.283	.1145	.0150	17.76	21 48.2	.2737	6 0.6	8.15
	23	.289	.1127	.0150	17.79	21 48.5	.2737	5 56.3	8.15
	24	.296	.1109	.0151	17.83	21 48.8	.2737	5 52.0	8.14
	25	.303	.1092	.0152	17.86	21 49.2	.2737	5 47.8	8.14
	26	.310	.1074	.0154	17.90	21 49.5	.2738	5 43.5	8.13
	27	.316	.1057	.0156	17.93	21 49.8	.2739	5 39.2	8.12
	28	+2.323	−0.1039	+0.0159	17.97	21 50.2	1.2740	5 34.9	+8.11
	29	.330	.1022	.0163	18.00	21 50.5	.2742	5 30.6	8.09
	30	.336	.1004	.0167	18.04	21 50.9	.2744	5 26.3	8.08
Oktbr.	1	.343	.0987	.0172	18.07	21 51.3	.2746	5 22.1	8.06
	2	.350	.0970	.0177	18.11	21 51.6	.2748	5 17.8	8.03
	3	.357	.0953	.0183	18.14	21 52.0	.2750	5 13.5	8.01
	4	.364	.0936	.0189	18.17	21 52.4	.2753	5 9.3	7.98
	5	.371	.0919	.0196	18.21	21 52.8	.2756	5 5.0	7.95
	6	.378	.0902	.0203	18.24	21 53.2	.2759	5 0.7	7.92
	7	.385	.0885	.0211	18.28	21 53.6	.2762	4 56.5	7.88
	8	+2.392	−0.0868	+0.0219	18.31	21 54.0	1.2766	4 52.2	+7.85
	9	.399	.0851	.0228	18.34	21 54.4	.2770	4 48.0	7.81
	10	.406	.0834	.0237	18.38	21 54.9	.2774	4 43.7	7.77
	11	.413	.0817	.0247	18.41	21 55.3	.2778	4 39.5	7.72
	12	.420	.0801	.0257	18.45	21 55.7	.2782	4 35.2	7.68
	13	.428	.0784	.0268	18.48	21 56.2	.2786	4 31.0	7.63
	14	.435	.0767	.0279	18.51	21 56.6	.2791	4 26.8	7.58
	15	.443	.0750	.0290	18.55	21 57.1	.2796	4 22.6	7.52
	16	.450	.0733	.0302	18.58	21 57.5	.2801	4 18.4	7.47
	17	.458	.0715	.0314	18.62	21 58.0	.2806	4 14.2	7.41

1857

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Oktbr. 18	$+2^s.466$	−0.0697	+0.0327	18″.65	$21^h58^m.5$	1.2811	$4^h10^m.0$	+7″.35
19	.473	.0679	.0340	18.69	21 59.0	.2817	4 5.8	7.29
20	.481	.0661	.0353	18.73	21 59.5	.2822	4 1.6	7.22
21	.489	.0643	.0366	18.76	21 59.9	.2828	3 57.4	7.16
22	.497	.0625	.0380	18.80	22 0.4	.2834	3 53.3	7.09
23	.505	.0606	.0394	18.84	22 1.0	.2840	3 49.1	7.02
24	.513	.0587	.0408	18.87	22 1.5	.2846	3 45.0	6.94
25	.521	.0568	.0423	18.91	22 2.0	.2852	3 40.8	6.87
26	.530	.0549	.0438	18.95	22 2.5	.2858	3 36.7	6.79
27	.538	.0530	.0453	18.99	22 3.0	.2864	3 32.6	6.71
28	+2.547	−0.0510	+0 0468	19.03	22 3.6	1.2870	3 28.5	+6.63
29	.555	.0490	.0484	19.07	22 4.1	.2877	3 24.4	6.55
30	.564	.0470	.0499	19.11	22 4.6	.2883	3 20.3	6.46
31	.573	.0450	.0515	19.15	22 5.2	.2890	3 16.2	6.38
Novbr. 1	.581	.0430	.0530	19.19	22 5.7	.2896	3 12.2	6.29
2	.590	.0409	.0546	19.23	22 6.2	.2903	3 8.1	6.19
3	.600	.0388	.0562	19.27	22 6.8	.2909	3 4.1	6.10
4	.609	.0366	.0578	19.32	22 7.3	.2916	3 0.0	6.01
5	.618	.0344	.0594	19.36	22 7.9	.2922	2 56.0	5.91
6	.627	.0322	.0610	19.41	22 8.4	.2929	2 52.0	5.81
7	+2.637	−0.0300	+0.0626	19.45	22 9.0	1.2935	2 48.0	+5.71
8	.646	.0277	.0642	19.50	22 9.5	.2942	2 44.0	5.60
9	.656	.0254	.0658	19.54	22 10.1	.2948	2 40.0	5.50
10	.666	.0230	.0674	19.59	22 10.6	.2955	2 36.0	5.39
11	.676	.0206	.0690	19.64	22 11.2	.2961	2 32.1	5.29
12	.685	.0182	.0705	19.69	22 11.7	.2968	2 28.1	5.18
13	.695	.0158	.0721	19.74	22 12.3	.2974	2 24.2	5.06
14	.706	.0133	.0736	19.78	22 12.8	.2980	2 20.2	4.95
15	.716	.0108	.0751	19.84	22 13.4	.2986	2 16.3	4.83
16	.726	.0082	.0766	19.89	22 13.9	.2992	2 12.4	4.72
17	+2.736	−0.0056	+0.0781	19.94	22 14.5	1.2998	2 8.5	+4.60
18	.747	.0029	.0796	19.99	22 15.0	.3004	2 4.6	4.48
19	.758	−0.0002	.0810	20.05	22 15.6	.3010	2 0.7	4.36
20	.768	+0.0025	.0824	20.10	22 16.1	.3015	1 56.8	4.24
21	.779	.0053	.0838	20.16	22 16.6	.3021	1 53.0	4.12
22	.790	.0081	.0852	20.21	22 17.2	.3027	1 49.1	3.99
23	.801	.0109	.0865	20.27	22 17.7	.3032	1 45.3	3.86
24	.812	.0138	.0878	20.33	22 18.2	.3037	1 41.4	3.74
25	.823	.0167	.0891	20.39	22 18.7	.3042	1 37.6	3.61
26	.834	.0197	.0903	20.45	22 19.3	.3047	1 33.7	3.48
27	+2.846	+0.0227	+0.0915	20.51	22 19.8	1.3052	1 29.9	+3.35
28	.857	.0257	.0927	20.57	22 20.3	.3057	1 26.1	3.22
29	.868	.0287	.0938	20.63	22 20.8	.3061	1 22.3	3.08
30	.880	.0318	.0949	20.69	22 21.3	.3065	1 18.5	2.95
Dezbr. 1	.892	.0349	.0959	20.75	22 21.7	.3070	1 14.7	2.82
2	.903	.0381	.0969	20.82	22 22.2	.3074	1 10.9	2.68
3	.915	.0413	.0979	20.88	22 22.7	.3077	1 7.1	2.54
4	.927	.0445	.0988	20.94	22 23.2	.3081	1 3.3	2.41
5	.938	.0478	.0996	21.01	22 23.6	.3084	0 59.5	2.27
6	.950	.0511	.1004	21.08	22 24.1	.3087	0 55.7	2.13

1857

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	7	$+2^s.962$	+0.0544	+0.1012	21".14	$22^h24^m.5$	1.3090	$0^h52^m.0$	+1".99
	8	.974	.0578	.1019	21.21	22 25.0	.3093	0 48.2	1.85
	9	.986	.0612	.1026	21.28	22 25.4	.3096	0 44.5	1.71
	10	2.998	.0646	.1032	21.35	22 25.8	.3098	0 40.7	1.56
	11	3.010	.0680	.1037	21.42	22 26.2	.3100	0 36.9	1.42
	12	.022	.0715	.1042	21.49	22 26.7	.3102	0 33.2	1.28
	13	.034	.0750	.1047	21.56	22 27.1	.3104	0 29.4	1.14
	14	.047	.0785	.1051	21.63	22 27.5	.3106	0 25.7	1.00
	15	.059	.0820	.1055	21.70	22 27.8	.3107	0 22.0	0.85
	16	.071	.0855	.1058	21.77	22 28.2	.3109	0 18.3	0.71
	17	+3.083	+0.0891	+0.1061	21.84	22 28.6	1.3110	0 14.5	+0.56
	18	.096	.0927	.1063	21.91	22 28.9	.3110	0 10.8	0.42
	19	.108	.0963	.1064	21.98	22 29.3	.3111	0 7.0	0.27
	20	.120	.1000	.1064	22.06	22 29.6	.3111	0 3.3	+0.13
	21	.132	.1037	.1064	22.13	22 30.0	.3111	23 59.6	−0.02
	22	.145	.1074	.1064	22.21	22 30.3	.3111	23 55.8	0.16
	23	.157	.1111	.1063	22.28	22 30.6	.3111	23 52.1	0.31
	24	.169	.1148	.1062	22.35	22 30.9	.3110	23 48.3	0.45
	25	.182	.1185	.1060	22.43	22 31.2	.3109	23 44.6	0.60
	26	.194	.1222	.1058	22.50	22 31.5	.3108	23 40.8	0.74
	27	+3.206	+0.1259	+0.1055	22.58	22 31.8	1.3107	23 37.1	−0.89
	28	.218	.1297	.1052	22.65	22 32.0	.3106	23 33.3	1.03
	29	.230	.1334	.1048	22.73	22 32.3	.3104	23 29.6	1.17
	30	.243	.1372	.1043	22.80	22 32.6	.3102	23 25.8	1.31
	31	.255	.1410	.1038	22.88	22 32.8	.3100	23 22.1	1.46

1858

Januar	1	$+0^s.195$	−0.5713	+0.1031	8".60	$18^h34^m.0$	1.3098	$23^h18^m.3$	−1".60
	2	.207	.5704	.1025	8.62	18 36.0	.3095	23 14.6	1.74
	3	.219	.5694	.1018	8.64	18 38.1	.3093	23 10.8	1.88
	4	.231	.5683	.1011	8.66	18 40.1	.3090	23 7.0	2.02
	5	.243	.5672	.1003	8.68	18 42.0	.3087	23 3.2	2.16
	6	.255	.5660	.0995	8.70	18 44.0	.3083	22 59.4	2.30
	7	.267	.5648	.0986	8.73	18 45.9	.3080	22 55.6	2.44
	8	.278	.5635	.0977	8.75	18 47.8	.3076	22 51.8	2.58
	9	.290	.5621	.0967	8.78	18 49.7	.3073	22 48.0	2.72
	10	.302	.5607	.0957	8.81	18 51.6	.3069	22 44.2	2.85
	11	+0.313	−0.5593	+0.0946	8.84	18 53.4	1.3064	22 40.4	−2.99
	12	.325	.5578	.0935	8.87	18 55.2	.3060	22 36.6	3.12
	13	.336	.5563	.0924	8.90	18 57.0	.3055	22 32.8	3.26
	14	.348	.5547	.0912	8.93	18 58.8	.3051	22 28.9	3.39
	15	.359	.5531	.0900	8.96	19 0.5	.3046	22 25.1	3.52
	16	.370	.5515	.0887	8.99	19 2.2	.3041	22 21.2	3.65
	17	.381	.5498	.0874	9.03	19 3.9	.3036	22 17.4	3.78
	18	.392	.5481	.0861	9.06	19 5.5	.3031	22 13.5	3.91
	19	.403	.5463	.0848	9.10	19 7.1	.3025	22 9.6	4.03
	20	.414	.5445	.0834	9.13	19 8.7	.3020	22 5.7	4.16

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	21	+0.^{s}425	−0.5427	+0.0820	9.″17	$19^h10^m.3$	1.3014	22^h $1^m.8$	−4.″28
	22	.436	.5408	.0805	9.21	19 11.8	.3008	21 57.9	4.40
	23	.446	.5390	.0791	9.24	19 13.3	.3002	21 54.0	4.52
	24	.457	.5371	.0776	9.28	19 14.8	.2996	21 50.1	4.65
	25	.467	.5352	.0761	9.32	19 16.3	.2990	21 46.1	4.76
	26	.477	.5333	.0746	9.36	19 17.7	.2984	21 42.2	4.88
	27	.487	.5314	.0731	9.40	19 19.1	.2978	21 38.2	5.00
	28	.498	.5294	.0715	9.44	19 20.4	.2972	21 34.3	5.11
	29	.508	.5274	.0699	9.48	19 21.8	.2965	21 30.3	5.22
	30	.518	.5254	.0683	9.52	19 23.1	.2959	21 26.3	5.33
	31	+0.528	−0.5234	+0.0667	9.56	19 24.4	1.2952	21 22.3	−5.44
Februar	1	.537	.5214	.0651	9.60	19 25.6	.2946	21 18.3	5.54
	2	.547	.5195	.0635	9.64	19 26.9	.2939	21 14.3	5.65
	3	.556	.5175	.0619	9.68	19 28.1	.2932	21 10.2	5.75
	4	.566	.5155	.0603	9.72	19 29.3	.2926	21 6.2	5.85
	5	.575	.5135	.0587	9.76	19 30.4	.2919	21 2.1	5.95
	6	.584	.5115	.0570	9.80	19 31.6	.2913	20 58.1	6.05
	7	.593	.5095	.0554	9.84	19 32.7	.2906	20 54.0	6.15
	8	.602	.5075	.0538	9.88	19 33.8	.2899	20 49.9	6.24
	9	.611	.5055	.0522	9.91	19 34.8	.2893	20 45.8	6.33
	10	+0.620	−0.5035	+0.0506	9.95	19 35.9	1.2886	20 41.7	−6.42
	11	.629	.5016	.0491	9.99	19 36.9	.2880	20 37.6	6.51
	12	.638	.4996	.0475	10.03	19 38.0	.2874	20 33.5	6.59
	13	.646	.4977	.0460	10.07	19 39.0	.2867	20 29.3	6.68
	14	.655	.4958	.0445	10.11	19 39.9	.2861	20 25.1	6.76
	15	.663	.4939	.0430	10.15	19 40.9	.2854	20 21.0	6.84
	16	.671	.4920	.0415	10.18	19 41.8	.2848	20 16.8	6.91
	17	.679	.4902	.0401	10.22	19 42.8	.2842	20 12.6	6.99
	18	.688	.4883	.0387	10.26	19 43.7	.2836	20 8.4	7.06
	19	.696	.4865	.0373	10.30	19 44.6	.2830	20 4.2	7.13
	20	+0.703	−0.4847	+0.0359	10.33	19 45.5	1.2825	20 0.0	−7.20
	21	.711	.4829	.0345	10.37	19 46.3	.2819	19 55.8	7.27
	22	.719	.4811	.0331	10.40	19 47.2	.2813	19 51.6	7.33
	23	.727	.4794	.0318	10.44	19 48.1	.2808	19 47.4	7.39
	24	.735	.4777	.0305	10.47	19 48.9	.2802	19 43.1	7.45
	25	.742	.4760	.0293	10.51	19 49.8	.2797	19 38.8	7.51
	26	.750	.4743	.0282	10.54	19 50.6	.2792	19 34.6	7.56
	27	.757	.4727	.0271	10.57	19 51.4	.2788	19 30.3	7.62
	28	.764	.4711	.0260	10.61	19 52.2	.2783	19 26.0	7.67
März	1	.772	.4695	.0250	10.64	19 53.0	.2779	19 21.7	7.71
	2	+0.779	−0.4679	+0.0240	10.67	19 53.8	1.2775	19 17.5	−7.75
	3	.786	.4664	.0231	10.70	19 54.5	.2771	19 13.2	7.79
	4	.793	.4649	.0222	10.73	19 55.3	.2767	19 8.9	7.83
	5	.800	.4634	.0214	10.76	19 56.1	.2763	19 4.6	7.87
	6	.807	.4620	.0206	10.79	19 56.9	.2760	19 0.2	7.91
	7	.814	.4606	.0198	10.82	19 57.7	.2757	18 55.9	7.94
	8	.821	.4592	.0191	10.84	19 58.4	.2754	18 51.6	7.97
	9	.828	.4578	.0184	10.87	19 59.2	.2751	18 47.3	8.00
	10	.835	.4564	.0178	10.90	19 59.9	.2748	18 43.0	8.03
	11	.842	.4551	.0172	10.93	20 0.7	.2746	18 38.6	8.05

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	12	+0.8849	−0.4538	+0.0167	10.″95	$20^h\ 1.^m5$	1.2744	$18^h 34.^m3$	−8.″07
	13	.855	.4525	.0163	10.98	20 2.2	.2742	18 30.0	8.09
	14	.862	.4513	.0160	11.00	20 3.0	.2741	18 25.6	8.11
	15	.869	.4501	.0157	11.03	20 3.7	.2739	18 21.3	8.12
	16	.876	.4489	.0155	11.05	20 4.5	.2738	18 17.0	8.13
	17	.882	.4478	.0153	11.07	20 5.3	.2737	18 12.6	8.14
	18	.889	.4467	.0152	11.10	20 6.0	.2737	18 8.3	8.14
	19	.896	.4456	.0151	11.12	20 6.8	.2737	18 4.0	8.15
	20	.902	.4445	.0151	11.14	20 7.6	.2736	17 59.7	8.15
	21	.909	.4434	.0151	11.16	20 8.4	.2737	17 55.4	8.15
	22	+0.915	−0.4424	+0.0152	11.18	20 9.2	1.2737	17 51.0	−8.14
	23	.922	.4414	.0154	11.20	20 9.9	.2738	17 46.7	8.13
	24	.929	.4404	.0156	11.22	20 10.7	.2739	17 42.4	8.12
	25	.936	.4394	.0158	11.24	20 11.5	.2740	17 38.1	8.11
	26	.942	.4384	.0161	11.26	20 12.4	.2741	17 33.8	8.10
	27	.949	.4374	.0164	11.28	20 13.2	.2743	17 29.5	8.09
	28	.956	.4365	.0168	11.30	20 14.0	.2744	17 25.2	8.07
	29	.962	.4356	.0173	11.32	20 14.8	.2746	17 20.9	8.05
	30	.969	.4347	.0178	11.33	20 15.7	.2748	17 16.6	8.02
	31	.976	.4338	.0184	11.35	20 16.5	.2751	17 12.4	8.00
April	1	+0.983	−0.4330	+0.0190	11.37	20 17.3	1.2754	17 8.1	−7.97
	2	.990	.4321	.0197	11.39	20 18.2	.2757	17 3.8	7.94
	3	0.997	.4312	.0205	11.41	20 19.1	.2760	16 59.6	7.91
	4	1.004	.4303	.0213	11.42	20 20.0	.2763	16 55.3	7.88
	5	.011	.4294	.0221	11.44	20 20.8	.2767	16 51.1	7.84
	6	.018	.4286	.0230	11.46	20 21.7	.2771	16 46.9	7.80
	7	.025	.4278	.0239	11.47	20 22.6	.2775	16 42.7	7.76
	8	.032	.4270	.0249	11.49	20 23.5	.2779	16 38.5	7.71
	9	.039	.4262	.0259	11.51	20 24.4	.2783	16 34.3	7.66
	10	.047	.4254	.0270	11.52	20 25.4	.2788	16 30.1	7.62
	11	+1.054	−0.4246	+0.0281	11.54	20 26.3	1.2792	16 25.9	−7.56
	12	.061	.4238	.0292	11.56	20 27.3	.2797	16 21.8	7.51
	13	.069	.4230	.0304	11.57	20 28.2	.2802	16 17.6	7.46
	14	.076	.4221	.0316	11.59	20 29.2	.2807	16 13.5	7.40
	15	.084	.4213	.0328	11.61	20 30.2	.2812	16 9.4	7.34
	16	.092	.4204	.0340	11.62	20 31.1	.2817	16 5.2	7.28
	17	.099	.4195	.0353	11.64	20 32.1	.2822	16 1.1	7.22
	18	.107	.4186	.0366	11.66	20 33.1	.2828	15 57.1	7.15
	19	.115	.4177	.0380	11.68	20 34.2	.2834	15 53.0	7.09
	20	.123	.4168	.0394	11.69	20 35.2	.2839	15 48.9	7.02
	21	+1.131	−0.4159	+0.0408	11.71	20 36.2	1.2845	15 44.9	−6.95
	22	.139	.4149	.0422	11.73	20 37.3	.2851	15 40.9	6.87
	23	.147	.4139	.0436	11.75	20 38.3	.2857	15 36.9	6.80
	24	.156	.4129	.0451	11.77	20 39.3	.2863	15 32.8	6.72
	25	.164	.4119	.0466	11.79	20 40.4	.2870	15 28.8	6.64
	26	.172	.4109	.0481	11.81	20 41.5	.2876	15 24.9	6.56
	27	.181	.4099	.0496	11.83	20 42.5	.2882	15 20.9	6.48
	28	.190	.4088	.0511	11.85	20 43.6	.2888	15 16.9	6.39
	29	.198	.4077	.0527	11.88	20 44.7	:2895	15 13.0	6.30
	30	.207	.4066	.0542	11.90	20 45.8	.2901	15 9.1	6.22

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	1	$+1^s.216$	−0.4055	+0.0558	11″.92	$20^h46^m.9$	1.2907	$15^h\ 5^m.2$	−6″.13
	2	.225	.4043	.0573	11.95	20 48.0	.2914	15 1.3	6.03
	3	.234	.4031	.0589	11.97	20 49.1	.2920	14 57.4	5.94
	4	.243	.4018	.0604	12.00	20 50.2	.2926	14 53.5	5.85
	5	.252	.4005	.0620	12.02	20 51.3	.2933	14 49.7	5.75
	6	.261	.3992	.0635	12.05	20 52.4	.2939	14 45.8	5.65
	7	.271	.3979	.0650	12.07	20 53.5	.2945	14 42.0	5.55
	8	.280	.3965	.0665	12.10	20 54.6	.2951	14 38.2	5.45
	9	.290	.3951	.0680	12.13	20 55.8	.2958	14 34.3	5.35
	10	.300	.3936	.0695	12.16	20 56.9	.2964	14 30.5	5.24
	11	+1.309	−0.3921	+0.0710	12.19	20 58.0	1.2970	14 26.7	−5.14
	12	.319	.3906	.0725	12.22	20 59.1	.2976	14 23.0	5.03
	13	.329	.3890	.0740	12.25	21 0.2	.2982	14 19.2	4.92
	14	.339	.3874	.0755	12.28	21 1.4	.2987	14 15.5	4.81
	15	.349	.3858	.0769	12.31	21 2.5	.2993	14 11.7	4.70
	16	.359	.3841	.0783	12.35	21 3.6	.2999	14 8.0	4.59
	17	.369	.3824	.0797	12.38	21 4.7	.3005	14 4.3	4.47
	18	.379	.3806	.0810	12.42	21 5.8	.3010	14 0.6	4.36
	19	.390	.3788	.0824	12.46	21 6.9	.3015	13 56.9	4.24
	20	.400	.3769	.0837	12.49	21 8.0	.3021	13 53.2	4.13
	21	+1.411	−0.3750	+0.0850	12.53	21 9.1	1.3026	13 49.5	−4.01
	22	.421	.3731	.0863	12.57	21 10.2	.3031	13 45.9	3.89
	23	.432	.3712	.0876	12.61	21 11.3	.3036	13 42.2	3.77
	24	.443	.3692	.0888	12.65	21 12.4	.3041	13 38.6	3.64
	25	.454	.3671	.0900	12.69	21 13.5	.3046	13 35.0	3.52
	26	.464	.3650	.0911	12.73	21 14.5	.3050	13 31.3	3.40
	27	.475	.3629	.0922	12.78	21 15.6	.3055	13 27.7	3.28
	28	.486	.3607	.0933	12.82	21 16.6	.3059	13 24.1	3.15
	29	.497	.3585	.0944	12.86	21 17.7	.3063	13 20.5	3.02
	30	.508	.3562	.0954	12.91	21 18.7	.3067	13 16.9	2.90
	31	+1.520	−0.3539	+0.0964	12.96	21 19.7	1.3071	13 13.3	−2.77
Juni	1	.531	.3515	.0973	13.00	21 20.8	.3075	13 9.8	2.64
	2	.542	.3491	.0982	13.05	21 21.8	.3078	13 6.2	2.51
	3	.553	.3467	.0990	13.10	21 22.8	.3082	13 2.7	2.38
	4	.565	.3442	.0998	13.15	21 23.8	.3085	12 59.1	2.25
	5	.576	.3417	.1005	13.20	21 24.7	.3088	12 55.5	2.12
	6	.588	.3392	.1012	13.25	21 25.7	.3091	12 52.0	1.99
	7	.599	.3366	.1019	13.30	21 26.6	.3093	12 48.4	1.86
	8	.611	.3340	.1025	13.35	21 27.6	.3096	12 44.9	1.72
	9	.622	.3313	.1031	13.41	21 28.5	.3098	12 41.4	1.59
	10	+1.634	−0.3286	+0.1036	13.46	21 29.4	1.3100	12 37.8	−1.46
	11	.646	.3259	.1041	13.52	21 30.3	.3102	12 34.3	1.32
	12	.657	.3231	.1046	13.57	21 31.2	.3104	12 30.8	1.19
	13	.669	.3203	.1050	13.63	21 32.1	.3105	12 27.3	1.05
	14	.680	.3174	.1053	13.69	21 32.9	.3107	12 23.8	0.92
	15	.692	.3145	.1056	13.74	21 33.8	.3108	12 20.3	0.78
	16	.704	.3116	.1059	13.80	21 34.6	.3109	12 16.7	0.65
	17	.716	.3087	.1061	13.86	21 35.4	.3110	12 13.2	0.51
	18	.727	.3057	.1063	13.92	21 36.2	.3110	12 9.7	0.38
	19	.739	.3027	.1064	13.98	21 37.0	.3111	12 6.2	0.24

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	20	$+1^s.751$	−0.2997	+0.1065	14″.04	$21^h 37^m.8$	1.3111	$12^h 2^m.7$	−0″.11
	21	.763	.2967	.1065	14.10	21 38.6	.3111	11 59.3	+0.03
	22	.775	.2936	.1065	14.16	21 39.3	.3111	11 55.8	0.16
	23	.786	.2905	.1064	14.23	21 40.0	.3111	11 52.3	0.30
	24	.798	.2874	.1063	14.29	21 40.8	.3110	11 48.8	0.43
	25	.810	.2843	.1061	14.35	21 41.5	.3110	11 45.3	0.57
	26	.821	.2812	.1059	14.41	21 42.1	.3109	11 41.8	0.70
	27	.833	.2780	.1056	14.48	21 42.8	.3108	11 38.2	0.84
	28	.845	.2748	.1053	14.54	21 43.5	.3106	11 34.7	0.97
	29	.856	.2716	.1049	14.61	21 44.1	.3105	11 31.2	1.11
	30	+1.868	−0.2684	+0.1045	14.67	21 44.7	1.3103	11 27.7	+1.24
Juli	1	.880	.2651	.1040	14.74	21 45.4	.3101	11 24.2	1.38
	2	.891	.2619	.1035	14.80	21 46.0	.3099	11 20.7	1.51
	3	.903	.2586	.1029	14.87	21 46.6	.3097	11 17.2	1.65
	4	.914	.2554	.1023	14.93	21 47.1	.3095	11 13.7	1.78
	5	.926	.2521	.1017	15.00	21 47.7	.3092	11 10.1	1.91
	6	.937	.2488	.1010	15.06	21 48.2	.3090	11 6.6	2.04
	7	.949	.2455	.1003	15.13	21 48.7	.3087	11 3.1	2.17
	8	.960	.2422	.0995	15.20	21 49.2	.3084	10 59.5	2.30
	9	.971	.2389	.0987	15.26	21 49.7	.3080	10 56.0	2.43
	10	+1.983	−0.2356	+0.0978	15.33	21 50.2	1.3077	10 52.4	+2.56
	11	1.994	.2323	.0969	15.39	21 50.7	.3073	10 48.9	2.69
	12	2.005	.2289	.0960	15.46	21 51.2	.3070	10 45.3	2.82
	13	.016	.2256	.0950	15.53	21 51.6	.3066	10 41.7	2.94
	14	.027	.2223	.0940	15.59	21 52.1	.3062	10 38.2	3.07
	15	.038	.2190	.0929	15.66	21 52.5	.3057	10 34.6	3.19
	16	.049	.2157	.0918	15.73	21 52.9	.3053	10 31.0	3.32
	17	.060	.2124	.0907	15.79	21 53.3	.3049	10 27.4	3.44
	18	.071	.2091	.0896	15.86	21 53.7	.3044	10 23.8	3.56
	19	.082	.2059	.0884	15.92	21 54.1	.3040	10 20.2	3.69
	20	+2.092	−0.2026	+0.0872	15.99	21 54.5	1.3035	10 16.6	+3.81
	21	.103	.1994	.0860	16.05	21 54.8	.3030	10 12.9	3.93
	22	.113	.1961	.0847	16.12	21 55.2	.3025	10 9.3	4.05
	23	.124	.1929	.0834	16.18	21 55.5	.3020	10 5.6	4.16
	24	.134	.1896	.0821	16.25	21 55.9	.3014	10 1.9	4.28
	25	.145	.1864	.0807	16.31	21 56.2	.3009	9 58.3	4.40
	26	.155	.1832	.0793	16.38	21 56.5	.3003	9 54.6	4.51
	27	.165	.1800	.0779	16.44	21 56.8	.2997	9 50.9	4.62
	28	.175	.1768	.0765	16.51	21 57.1	.2992	9 47.2	4.73
	29	.185	.1736	.0751	16.57	21 57.4	.2986	9 43.5	4.84
	30	+2.195	−0.1704	+0.0737	16.63	21 57.7	1.2980	9 39.8	+4.95
	31	.205	.1673	.0722	16.70	21 57.9	.2975	9 36.0	5.06
August	1	.214	.1642	.0707	16.76	21 58.2	.2968	9 32.3	5.16
	2	.224	.1611	.0692	16.82	21 58.4	.2962	9 28.5	5.27
	3	.234	.1580	.0677	16.88	21 58.7	.2956	9 24.8	5.37
	4	.243	.1550	.0662	16.94	21 58.9	.2950	9 21.0	5.47
	5	.253	.1520	.0646	17.01	21 59.2	.2944	9 17.2	5.57
	6	.262	.1490	.0631	17.07	21 59.4	.2938	9 13.4	5.67
	7	.271	.1460	.0616	17.13	21 59.6	.2932	9 9.6	5.77
	8	.280	.1430	.0601	17.18	21 59.8	.2925	9 5.7	5.86

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	9	+2.8289	−0.1401	+0.0585	17.″24	22^h 0.^{m}1	1.2919	9^h 1.^{m}9	+5.″96
	10	.298	.1372	.0570	17.30	22 0.3	.2913	8 58.0	6.05
	11	.307	.1343	.0555	17.36	22 0.5	.2906	8 54.2	6.14
	12	.316	.1314	.0540	17.42	22 0.7	.2900	8 50.3	6.23
	13	.325	.1285	.0525	17.47	22 0.9	.2894	8 46.4	6.32
	14	.333	.1257	.0510	17.53	22 1.1	.2888	8 42.5	6.40
	15	.342	.1229	.0495	17.59	22 1.3	.2881	8 38.6	6.49
	16	.350	.1201	.0480	17.64	22 1.5	.2875	8 34.7	6.57
	17	.359	.1174	.0465	17.70	22 1.6	.2869	8 30.7	6.65
	18	.367	.1147	.0451	17.75	22 1.8	.2863	8 26.8	6.73
	19	+2.375	−0.1120	+0.0436	17.80	22 2.0	1.2857	8 22.8	+6.80
	20	.383	.1094	.0422	17.86	22 2.2	.2851	8 18.8	6.88
	21	.391	.1068	.0408	17.91	22 2.4	.2845	8 14.8	6.95
	22	.399	.1042	.0394	17.96	22 2.5	.2840	8 10.8	7.02
	23	.407	.1016	.0380	18.01	22 2.7	.2834	8 6.8	7.09
	24	.415	.0991	.0367	18.06	22 2.9	.2828	8 2.8	7.16
	25	.423	.0966	.0353	18.11	22 3.1	.2823	7 58.7	7.22
	26	.430	.0941	.0340	18.16	22 3.3	.2817	7 54.6	7.28
	27	.438	.0917	.0327	18.21	22 3.4	.2812	7 50.6	7.35
	28	.445	.0893	.0315	18.26	22 3.6	.2807	7 46.5	7.40
	29	+2.453	−0.0869	+0.0303	18.31	22 3.8	1.2802	7 42.4	+7.46
	30	.460	.0845	.0292	18.36	22 4.0	.2797	7 38.3	7.51
	31	.468	.0822	.0281	18.40	22 4.2	.2792	7 34.2	7.56
Septbr.	1	.475	.0799	.0270	18.45	22 4.3	.2788	7 30.1	7.61
	2	.482	.0776	.0260	18.49	22 4.5	.2783	7 26.0	7.66
	3	.489	.0754	.0250	18.54	22 4.7	.2779	7 21.8	7.71
	4	.496	.0732	.0240	18.58	22 4.9	.2775	7 17.7	7.75
	5	.504	.0710	.0231	18.63	22 5.1	.2771	7 13.5	7.79
	6	.511	.0688	.0222	18.67	22 5.3	.2767	7 9.3	7.83
	7	.518	.0667	.0214	18.72	22 5.5	.2764	7 5.2	7.87
	8	+2.525	−0.0646	+0.0206	18.76	22 5.7	1.2761	7 1.0	+7.90
	9	.531	.0625	.0199	18.80	22 5.9	.2757	6 56.8	7.94
	10	.538	.0604	.0192	18.84	22 6.1	.2754	6 52.6	7.97
	11	.545	.0583	.0185	18.88	22 6.3	.2751	6 48.4	7.99
	12	.552	.0563	.0179	18.92	22 6.5	.2749	6 44.2	8.02
	13	.559	.0543	.0174	18.96	22 6.8	.2747	6 39.9	8.04
	14	.565	.0523	.0170	19.00	22 7.0	.2745	6 35.7	8.06
	15	.572	.0504	.0166	19.04	22 7.2	.2743	6 31.4	8.08
	16	.579	.0484	.0162	19.08	22 7.4	.2741	6 27.2	8.10
	17	.585	.0465	.0159	19.12	22 7.7	.2740	6 22.9	8.11
	18	+2.592	−0.0446	+0.0156	19.16	22 7.9	1.2739	6 18.7	+8.12
	19	.599	.0427	.0154	19.20	22 8.2	.2738	6 14.4	8.13
	20	.605	.0408	.0152	19.23	22 8.5	.2737	6 10.2	8.14
	21	.612	.0390	.0151	19.27	22 8.7	.2737	6 5.9	8.15
	22	.618	.0371	.0150	19.31	22 9.0	.2737	6 1.6	8.15
	23	.625	.0353	.0150	19.34	22 9.2	.2737	5 57.4	8.15
	24	.632	.0335	.0151	19.38	22 9.5	.2737	5 53.1	8.14
	25	.638	.0317	.0152	19.42	22 9.8	.2737	5 48.8	8.14
	26	.645	.0299	.0154	19.45	22 10.1	.2738	5 44.5	8.13
	27	.652	.0281	.0156	19.49	22 10.4	.2739	5 40.2	8.12

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	28	+2.658	−0.0263	+0.0159	19.″52	$22^h10^m.7$	1.2740	$5^h35^m.9$	+8.″11
	29	.665	.0245	.0162	19.56	22 11.0	.2742	5 31.7	8.10
	30	.672	.0227	.0166	19.60	22 11.3	.2743	5 27.4	8.08
Oktbr.	1	.678	.0210	.0171	19.63	22 11.7	.2745	5 23.1	8.06
	2	.685	.0192	.0176	19.67	22 12.1	.2748	5 18.8	8.04
	3	.692	.0175	.0182	19.70	22 12.3	.2750	5 14.6	8.01
	4	.699	.0158	.0188	19.73	22 12.6	.2753	5 10.3	7.98
	5	.705	.0141	.0195	19.77	22 13.0	.2755	5 6.0	7.95
	6	.712	.0123	.0202	19.80	22 13.3	.2758	5 1.8	7.92
	7	.719	.0106	.0210	19.84	22 13.7	.2762	4 57.5	7.89
	8	+2.726	−0.0088	+0.0218	19.88	22 14.1	1.2765	4 53.3	+7.85
	9	.733	.0071	.0227	19.91	22 14.5	.2769	4 49.0	7.82
	10	.741	.0053	.0236	19.95	22 14.8	.2773	4 44.8	7.78
	11	.748	.0035	.0245	19.98	22 15.2	.2777	4 40.5	7.73
	12	.755	−0.0018	.0255	20.02	22 15.6	.2781	4 36.3	7.69
	13	.762	0.0000	.0265	20.05	22 16.0	.2785	4 32.0	7.64
	14	.769	+0.0017	.0276	20.09	22 16.4	.2790	4 27.8	7.59
	15	.777	.0035	.0287	20.12	22 16.8	.2795	4 23.6	7.54
	16	.784	.0053	.0299	20.16	22 17.2	.2800	4 19.4	7.48
	17	.792	.0071	.0312	20.19	22 17.6	.2805	4 15.2	7.43
	18	+2.799	+0.0089	+0.0324	20.23	22 18.1	1.2810	4 11.0	+7.37
	19	.807	.0108	.0337	20.27	22 18.5	.2815	4 6.8	7.31
	20	.814	.0127	.0350	20.31	22 18.9	.2821	4 2.6	7.24
	21	.822	.0146	.0363	20.34	22 19.4	.2827	3 58.4	7.17
	22	.830	.0165	.0376	20.38	22 19.8	.2832	3 54.3	7.11
	23	.838	.0185	.0390	20.42	22 20.3	.2838	3 50.1	7.04
	24	.846	.0205	.0404	20.46	22 20.8	.2844	3 46.0	6.96
	25	.855	.0225	.0419	20.50	22 21.2	.2850	3 41.8	6.89
	26	.863	.0245	.0434	20.54	22 21.7	.2856	3 37.7	6.81
	27	.871	.0265	.0449	20.58	22 22.2	.2862	3 33.6	6.73
	28	+2.880	+0.0285	+0.0464	20.62	22 22.6	1.2869	3 29.5	+6.65
	29	.888	.0306	.0479	20.66	22 23.1	.2875	3 25.4	6.57
	30	.897	.0327	.0495	20.71	22 23.6	.2882	3 21.3	6.48
	31	.905	.0348	.0511	20.75	22 24.1	.2888	3 17.2	6.40
Novbr.	1	.914	.0369	.0528	20.79	22 24.5	.2895	3 13.1	6.31
	2	.923	.0391	.0544	20.84	22 25.0	.2901	3 9.1	6.22
	3	.932	.0413	.0561	20.88	22 25.5	.2908	3 5.0	6.12
	4	.941	.0436	.0577	20.93	22 26.0	.2914	3 1.0	6.03
	5	.950	.0459	.0593	20.97	22 26.5	.2921	2 57.0	5.93
	6	.959	.0482	.0608	21.02	22 27.0	.2927	2 53.0	5.83
	7	+2.969	+0.0505	+0.0624	21.06	22 27.5	1.2934	2 49.0	+5.73
	8	.978	.0529	.0639	21.11	22 27.9	.2940	2 45.0	5.63
	9	.988	.0553	.0655	21.16	22 28.4	.2947	2 41.0	5.52
	10	2.997	.0578	.0670	21.21	22 28.9	.2953	2 37.0	5.42
	11	3.007	.0603	.0686	21.26	22 29.4	.2960	2 33.0	5.31
	12	.017	.0628	.0701	21.31	22 29.9	.2966	2 29.1	5.20
	13	.027	.0653	.0717	21.36	22 30.4	.2972	2 25.1	5.09
	14	.037	.0679	.0732	21.41	22 30.9	.2978	2 21.2	4.98
	15	.047	.0705	.0747	21.47	22 31.4	.2985	2 17.3	4.86
	16	.057	.0732	.0762	21.52	22 31.9	.2991	2 13.3	4.75

1858

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	17	+3.s067	+0.0759	+0.0777	21.″57	$22^h 32^m.4$	1.2997	$2^h 9^m.4$	+4.″63
	18	.078	.0787	.0792	21.63	22 32.8	.3003	2 5.5	4.51
	19	.088	.0815	.0806	21.69	22 33.3	.3008	2 1.6	4.39
	20	.099	.0843	.0820	21.74	22 33.8	.3014	1 57.8	4.27
	21	.110	.0871	.0834	21.80	22 34.3	.3020	1 53.9	4.15
	22	.120	.0900	.0848	21.86	22 34.7	.3025	1 50.0	4.02
	23	.131	.0929	.0861	21.91	22 35.2	.3031	1 46.2	3.90
	24	.142	.0959	.0875	21.97	22 35.7	.3036	1 42.3	3.77
	25	.153	.0989	.0888	22.04	22 36.1	.3041	1 38.5	3.64
	26	.164	.1020	.0900	22.10	22 36.6	.3046	1 34.7	3.51
	27	+3.175	+0.1051	+0.0912	22.16	22 37.0	1.3051	1 30.8	+3.38
	28	.187	.1082	.0924	22.22	22 37.4	.3056	1 27.0	3.25
	29	.198	.1113	.0935	22.28	22 37.9	.3060	1 23.2	3.12
	30	.209	.1145	.0946	22.35	22 38.3	.3064	1 19.4	2.98
Dezbr.	1	.221	.1177	.0957	22.41	22 38.8	.3069	1 15.6	2.85
	2	.232	.1209	.0967	22.48	22 39.2	.3073	1 11.8	2.71
	3	.244	.1242	.0977	22.54	22 39.6	.3076	1 8.0	2.58
	4	.256	.1275	.0986	22.61	22 40.0	.3080	1 4.2	2.44
	5	.267	.1308	.0995	22.68	22 40.4	.3083	1 0.4	2.30
	6	.279	.1342	.1003	22.74	22 40.8	.3087	0 56.7	2.16
	7	+3.291	+0.1376	+0.1011	22.81	22 41.2	1.3090	0 52.9	+2.02
	8	.303	.1410	.1018	22.88	22 41.6	.3093	0 49.1	1.88
	9	.315	.1444	.1025	22.95	22 41.9	.3095	0 45.4	1.74
	10	.327	.1479	.1031	23.02	22 42.3	.3098	0 41.6	1.60
	11	.339	.1514	.1036	23.09	22 42.7	.3100	0 37.9	1.46
	12	.350	.1549	.1041	23.16	22 43.0	.3102	0 34.1	1.31
	13	.362	.1584	.1046	23.23	22 43.4	.3104	0 30.4	1.17
	14	.375	.1620	.1050	23.30	22 43.7	.3105	0 26.6	1.03
	15	.387	.1656	.1053	23.37	22 44.0	.3107	0 22.9	0.89
	16	.399	.1692	.1056	23.44	22 44.4	.3108	0 19.2	0.74
	17	+3.411	+0.1728	+0.1059	23.52	22 44.7	1.3109	0 15.4	+0.60
	18	.423	.1764	.1062	23.59	22 45.0	.3110	0 11.7	0.45
	19	.435	.1801	.1064	23.66	22 45.3	.3111	0 7.9	0.31
	20	.447	.1838	.1065	23.74	22 45.6	.3111	0 4.2	0.16
	21	.460	.1875	.1065	23.81	22 45.8	.3111	0 0.5	+0.02
	22	.472	.1912	.1065	23.89	22 46.1	.3111	23 56.7	−0.13
	23	.484	.1949	.1064	23.96	22 46.4	.3111	23 53.0	0.27
	24	.496	.1986	.1063	24.03	22 46.6	.3110	23 49.2	0.42
	25	.508	.2023	.1061	24.11	22 46.9	.3110	23 45.5	0.56
	26	.521	.2061	.1058	24.18	22 47.1	.3109	23 41.7	0.71
	27	+3.533	+0.2098	+0.1055	24.26	22 47.4	1.3108	23 38.0	−0.85
	28	.545	.2136	.1052	24.33	22 47.6	.3106	23 34.2	0.99
	29	.557	.2173	.1048	24.41	22 47.8	.3105	23 30.5	1.14
	30	.569	.2211	.1044	24.49	22 48.0	.3103	23 26.7	1.28
	31	.581	.2249	.1040	24.56	22 48.2	.3101	23 23.0	1.42

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Januar	1	+0.s522	−0.5863	+0.1033	8.″30	$19^h36^m.7$	1.3098	$23^h19^m.2$	−1.″56
	2	.534	.5845	.1027	8.33	19 38.6	.3096	23 15.5	1.71
	3	.545	.5827	.1020	8.37	19 40.4	.3093	23 11.7	1.85
	4	.557	.5808	.1013	8.41	19 42.3	.3091	23 7.9	1.99
	5	.569	.5789	.1005	8.44	19 44.1	.3088	23 4.1	2.13
	6	.581	.5769	.0997	8.48	19 45.9	.3084	23 0.4	2.27
	7	.593	.5749	.0988	8.52	19 47.6	.3081	22 56.6	2.41
	8	.604	.5728	.0979	8.57	19 49.4	.3077	22 52.8	2.55
	9	.616	.5707	.0969	8.61	19 51.0	.3074	22 49.0	2.68
	10	.627	.5686	.0959	8.65	19 52.7	.3070	22 45.2	2.82
	11	+0.639	−0.5664	+0.0949	8.70	19 54.3	1.3066	22 41.3	−2.96
	12	.650	.5642	.0938	8.74	19 55.9	.3061	22 37.5	3.09
	13	.661	.5619	.0927	8.78	19 57.5	.3057	22 33.7	3.22
	14	.673	.5596	.0915	8.83	19 59.0	.3052	22 29.9	3.36
	15	.684	.5573	.0903	8.88	20 0.5	.3047	22 26.0	3.49
	16	.695	.5550	.0890	8.92	20 2.0	.3042	22 22.2	3.62
	17	.706	.5527	.0878	8.97	20 3.4	.3037	22 18.3	3.75
	18	.717	.5503	.0865	9.02	20 4.8	.3032	22 14.4	3.88
	19	.728	.5479	.0852	9.06	20 6.2	.3027	22 10.5	4.00
	20	.739	.5455	.0838	9.11	20 7.5	.3021	22 6.7	4.13
	21	+0.750	−0.5431	+0.0824	9.16	20 8.9	1.3015	22 2.8	−4.25
	22	.760	.5407	.0809	9.21	20 10.1	.3009	21 58.9	4.37
	23	.771	.5383	.0794	9.26	20 11.4	.3004	21 55.0	4.50
	24	.781	.5358	.0779	9.31	20 12.6	.2998	21 51.0	4.62
	25	.791	.5334	.0764	9.36	20 13.8	.2992	21 47.1	4.74
	26	.802	.5309	.0749	9.41	20 14.9	.2986	21 43.1	4.85
	27	.812	.5284	.0734	9.46	20 16.1	.2980	21 39.2	4.97
	28	.822	.5259	.0719	9.51	20 17.2	.2973	21 35.2	5.08
	29	.832	.5234	.0703	9.56	20 18.2	.2967	21 31.2	5.19
	30	.842	.5210	.0687	9.60	20 19.3	.2960	21 27.3	5.30
	31	+0.852	−0.5185	+0.0671	9.65	20 20.3	1.2954	21 23.3	−5.41
Februar	1	.861	.5161	.0655	9.70	20 21.3	.2947	21 19.3	5.52
	2	.871	.5136	.0638	9.75	20 22.3	.2941	21 15.2	5.62
	3	.880	.5112	.0622	9.80	20 23.3	.2934	21 11.2	5.73
	4	.890	.5088	.0606	9.85	20 24.2	.2927	21 7.2	5.83
	5	.899	.5064	.0590	9.90	20 25.1	.2921	21 3.1	5.93
	6	.908	.5040	.0574	9.94	20 26.0	.2914	20 59.1	6.03
	7	.917	.5017	.0558	9.99	20 26.9	.2908	20 55.0	6.12
	8	.926	.4993	.0542	10.04	20 27.8	.2901	20 50.9	6.22
	9	.935	.4970	.0526	10.09	20 28.6	.2894	20 46.8	6.31
	10	+0.944	−0.4947	+0.0510	10.13	20 29.5	1.2888	20 42.7	−6.40
	11	.952	.4924	.0495	10.18	20 30.3	.2882	20 38.6	6.49
	12	.961	.4901	.0479	10.22	20 31.1	.2875	20 34.5	6.57
	13	.969	.4879	.0464	10.27	20 31.8	.2869	20 30.3	6.66
	14	.978	.4857	.0449	10.31	20 32.6	.2862	20 26.2	6.74
	15	.986	.4835	.0434	10.36	20 33.3	.2856	20 22.0	6.82
	16	0.994	.4813	.0419	10.40	20 34.1	.2850	20 17.8	6.90
	17	1.002	.4791	.0404	10.44	20 34.8	.2844	20 13.6	6.97
	18	.010	.4769	.0390	10.49	20 35.5	.2838	20 9.5	7.04
	19	.018	.4748	.0376	10.53	20 36.2	.2832	20 5.3	7.12

1859

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Februar 20	+1.s026	−0.4727	+0.0362	10.″57	$20^h36^m.9$	1.2826	$20^h\ 1^m.1$	−7.″18
21	.034	.4706	.0348	10.61	20 37.6	.2820	19 56.8	7.25
22	.041	.4686	.0334	10.66	20 38.3	.2815	19 52.6	7.32
23	.049	.4666	.0321	10.70	20 38.9	.2809	19 48.4	7.38
24	.057	.4646	.0308	10.74	20 39.6	.2804	19 44.1	7.44
25	.064	.4627	.0296	10.77	20 40.3	.2798	19 39.9	7.49
26	.071	.4607	.0285	10.81	20 40.9	.2794	19 35.6	7.55
27	.079	.4588	.0274	10.85	20 41.6	.2789	19 31.3	7.60
28	.086	.4569	.0263	10.89	20 42.2	.2784	19 27.1	7.65
März 1	.093	.4551	.0253	10.93	20 42.9	.2780	19 22.8	7.70
2	+1.100	−0.4533	+0.0243	10.96	20 43.5	1.2776	19 18.5	−7.75
3	.108	.4516	.0234	11.00	20 44.1	.2772	19 14.2	7.79
4	.115	.4498	.0225	11.03	20 44.7	.2768	19 9.9	7.83
5	.121	.4481	.0216	11.07	20 45.4	.2764	19 5.6	7.87
6	.128	.4464	.0208	11.10	20 46.0	.2761	19 1.3	7.90
7	.135	.4447	.0200	11.14	20 46.6	.2757	18 57.0	7.93
8	.142	.4430	.0193	11.17	20 47.3	.2754	18 52.7	7.97
9	.149	.4414	.0186	11.20	20 47.9	.2752	18 48.3	7.99
10	.156	.4398	.0180	11.23	20 48.5	.2749	18 44.0	8.02
11	.162	.4383	.0174	11.26	20 49.2	.2747	18 39.7	8.05
12	+1.169	−0.4368	+0.0169	11.29	20 49.8	1.2745	18 35.4	−8.07
13	.176	.4353	.0165	11.32	20 50.4	.2743	18 31.0	8.09
14	.182	.4338	.0161	11.35	20 51.1	.2741	18 26.7	8.10
15	.189	.4323	.0158	11.38	20 51.7	.2740	18 22.4	8.11
16	.196	.4309	.0155	11.41	20 52.3	.2739	18 18.0	8.13
17	.202	.4295	.0153	11.44	20 53.0	.2738	18 13.7	8.13
18	.209	.4281	.0151	11.47	20 53.7	.2737	18 9.4	8.14
19	.215	.4268	.0150	11.49	20 54.3	.2737	18 5.0	8.15
20	.222	.4255	.0150	11.52	20 55.0	.2736	18 0.7	8.15
21	.228	.4242	.0150	11.55	20 55.7	.2737	17 56.4	8.15
22	+1.235	−0.4229	+0.0151	11.57	20 56.3	1.2737	17 52.1	−8.14
23	.242	.4216	.0152	11.60	20 57.0	.2738	17 47.7	8.14
24	.248	.4203	.0154	11.62	20 57.7	.2738	17 43.4	8.13
25	.255	.4190	.0157	11.65	20 58.4	.2739	17 39.1	8.12
26	.261	.4178	.0160	11.67	20 59.1	.2741	17 34.8	8.10
27	.268	.4166	.0163	11.70	20 59.9	.2742	17 30.5	8.09
28	.274	.4154	.0167	11.72	21 0.6	.2744	17 26.2	8.07
29	.281	.4142	.0172	11.75	21 1.3	.2746	17 21.9	8.05
30	.288	.4130	.0177	11.77	21 2.1	.2748	17 17.7	8.03
31	.295	.4118	.0183	11.79	21 2.8	.2750	17 13.4	8.00
April 1	+1.301	−0.4107	+0.0189	11.82	21 3.6	1.2753	17 9.1	−7.98
2	.308	.4095	.0196	11.84	21 4.3	.2756	17 4.9	7.95
3	.315	.4084	.0203	11.86	21 5.1	.2759	17 0.6	7.92
4	.321	.4072	.0211	11.89	21 5.9	.2762	16 56.4	7.88
5	.328	.4061	.0219	11.91	21 6.7	.2766	16 52.1	7.85
6	.335	.4049	.0228	11.93	21 7.5	.2770	16 47.9	7.81
7	.342	.4038	.0237	11.96	21 8.3	.2774	16 43.7	7.77
8	.349	.4026	.0247	11.98	21 9.1	.2778	16 39.5	7.72
9	.357	.4015	.0257	12.00	21 9.9	.2782	16 35.3	7.68
10	.364	.4003	.0268	12.03	21 10.7	.2786	16 31.1	7.63

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
April	11	+1.s371	−0.3992	+0.0279	12.″05	21h11.m6	1.2791	16h26.m9	−7.″58
	12	.378	.3980	.0290	12.07	21 12.4	.2796	16 22.8	7.52
	13	.385	.3968	.0301	12.10	21 13.3	.2801	16 18.6	7.47
	14	.393	.3956	.0313	12.12	21 14.2	.2806	16 14.5	7.41
	15	.400	.3944	.0325	12.14	21 15.0	.2811	16 10.4	7.36
	16	.408	.3932	.0337	12.17	21 15.9	.2816	16 6.3	7.30
	17	.415	.3920	.0350	12.19	21 16.8	.2821	16 2.2	7.23
	18	.423	.3907	.0363	12.22	21 17.7	.2827	15 58.1	7.17
	19	.431	.3894	.0376	12.24	21 18.6	.2832	15 54.0	7.10
	20	.439	.3881	.0390	12.27	21 19.5	.2838	15 49.9	7.04
	21	+1.447	−0.3868	+0.0404	12.29	21 20.4	1.2844	15 45.9	−6.96
	22	.455	.3855	.0418	12.32	21 21.4	.2850	15 41.8	6.89
	23	.463	.3842	.0433	12.35	21 22.3	.2856	15 37.8	6.82
	24	.471	.3828	.0448	12.38	21 23.2	.2862	15 33.8	6.74
	25	.479	.3814	.0463	12.40	21 24.2	.2868	15 29.8	6.66
	26	.487	.3800	.0478	12.43	21 25.1	.2874	15 25.8	6.58
	27	.496	.3786	.0494	12.46	21 26.1	.2881	15 21.8	6.50
	28	.504	.3771	.0509	12.49	21 27.0	.2887	15 17.9	6.41
	29	.513	.3756	.0524	12.52	21 28.0	.2893	15 13.9	6.32
	30	.521	.3741	.0539	12.55	21 29.0	.2899	15 10.0	6.24
Mai	1	+1.530	−0.3725	+0.0555	12.58	21 29.9	1.2906	15 6.1	−6.15
	2	.539	.3709	.0570	12.61	21 30.9	.2912	15 2.2	6.06
	3	.548	.3693	.0585	12.64	21 31.9	.2918	14 58.3	5.96
	4	.557	.3677	.0600	12.68	21 32.8	.2925	14 54.4	5.87
	5	.566	.3660	.0616	12.71	21 33.8	.2931	14 50.6	5.77
	6	.575	.3643	.0631	12.75	21 34.8	.2937	14 46.7	5.67
	7	.584	.3626	.0646	12.78	21 35.8	.2944	14 42.9	5.57
	8	.593	.3609	.0661	12.82	21 36.7	.2950	14 39.1	5.47
	9	.603	.3591	.0676	12.85	21 37.7	.2956	14 35.3	5.37
	10	.612	.3572	.0691	12.89	21 38.7	.2962	14 31.5	5.27
	11	+1.622	−0.3553	+0.0706	12.93	21 39.6	1.2968	14 27.7	−5.17
	12	.632	.3534	.0721	12.96	21 40.6	.2974	14 23.9	5.06
	13	.641	.3514	.0736	13.00	21 41.6	.2980	14 20.1	4.95
	14	.651	.3494	.0750	13.04	21 42.6	.2986	14 16.4	4.84
	15	.661	.3474	.0765	13.09	21 43.5	.2992	14 12.6	4.72
	16	.671	.3453	.0779	13.13	21 44.5	.2998	14 8.9	4.61
	17	.681	.3432	.0793	13.17	21 45.4	.3003	14 5.2	4.50
	18	.691	.3410	.0807	13.21	21 46.4	.3009	14 1.5	4.39
	19	.701	.3388	.0821	13.26	21 47.3	.3014	13 57.8	4.27
	20	.712	.3366	.0834	13.30	21 48.3	.3020	13 54.1	4.16
	21	+1.722	−0.3343	+0.0847	13.35	21 49.2	1.3025	13 50.4	−4.04
	22	.733	.3320	.0860	13.39	21 50.1	.3030	13 46.7	3.91
	23	.743	.3297	.0873	13.44	21 51.0	.3035	13 43.1	3.79
	24	.754	.3273	.0885	13.49	21 51.9	.3040	13 39.5	3.67
	25	.764	.3248	.0897	13.54	21 52.8	.3045	13 35.8	3.55
	26	.775	.3223	.0908	13.59	21 53.7	.3049	13 32.2	3.43
	27	.786	.3198	.0919	13.64	21 54.6	.3053	13 28.6	3.31
	28	.797	.3173	.0930	13.69	21 55.5	.3058	13 25.0	3.18
	29	.807	.3148	.0941	13.74	21 56.4	.3062	13 21.4	3.05
	30	.818	.3122	.0952	13.79	21 57.2	.3066	13 17.8	2.93

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	31	+1.s829	−0.3096	+0.0962	13.″84	$21^h58^m.1$	1.3070	$13^h14^m.2$	−2.″80
Juni	1	.840	.3069	.0971	13.90	21 58.9	.3074	13 10.6	2.67
	2	.851	.3042	.0980	13.95	21 59.7	.3077	13 7.1	2.54
	3	.863	.3014	.0988	14.01	22 0.5	.3081	13 3.5	2.41
	4	.874	.2986	.0996	14.07	22 1.3	.3084	12 59.9	2.28
	5	.885	.2958	.1004	14.12	22 2.1	.3087	12 56.4	2.15
	6	.897	.2930	.1011	14.18	22 2.9	.3090	12 52.8	2.02
	7	.908	.2901	.1018	14.24	22 3.7	.3093	12 49.3	1.89
	8	.919	.2872	.1024	14.29	22 4.5	.3095	12 45.7	1.76
	9	.931	.2842	.1030	14.35	22 5.2	.3097	12 42.2	1.62
	10	+1.942	−0.2812	+0.1036	14.41	22 5.9	1.3100	12 38.7	−1.49
	11	.954	.2781	.1041	14.47	22 6.6	.3102	12 35.2	1.36
	12	.965	.2751	.1046	14.54	22 7.3	.3104	12 31.7	1.22
	13	.977	.2720	.1050	14.60	22 8.0	.3105	12 28.1	1.09
	14	1.988	.2689	.1053	14.66	22 8.7	.3106	12 24.6	0.95
	15	2.000	.2658	.1056	14.72	22 9.4	.3108	12 21.1	0.82
	16	.011	.2627	.1059	14.78	22 10.1	.3109	12 17.6	0.68
	17	.023	.2595	.1061	14.85	22 10.7	.3109	12 14.1	0.55
	18	.035	.2563	.1063	14.91	22 11.3	.3110	12 10.6	0.41
	19	.046	.2531	.1064	14.98	22 12.0	.3111	12 7.1	0.28
	20	+2.058	−0.2499	+0.1065	15.04	22 12.6	1.3111	12 3.6	−0.14
	21	.070	.2466	.1065	15.11	22 13.2	.3111	12 0.1	0.00
	22	.081	.2433	.1065	15.17	22 13.7	.3111	11 56.6	+0.13
	23	.093	.2400	.1064	15.24	22 14.3	.3111	11 53.1	0.27
	24	.104	.2367	.1063	15.31	22 14.8	.3110	11 49.6	0.40
	25	.116	.2334	.1061	15.37	22 15.4	.3110	11 46.1	0.54
	26	.127	.2301	.1059	15.44	22 15.9	.3109	11 42.6	0.67
	27	.139	.2267	.1057	15.51	22 16.4	.3108	11 39.1	0.81
	28	.151	.2233	.1054	15.57	22 16.9	.3107	11 35.6	0.94
	29	.162	.2199	.1050	15.64	22 17.4	.3105	11 32.1	1.08
	30	+2.174	−0.2166	+0.1046	15.71	22 17.9	1.3104	11 28.6	+1.21
Juli	1	.185	.2132	.1041	15.78	22 18.4	.3102	11 25.1	1.34
	2	.197	.2098	.1036	15.85	22 18.8	.3100	11 21.6	1.48
	3	.208	.2064	.1031	15.91	22 19.3	.3098	11 18.0	1.61
	4	.219	.2029	.1025	15.98	22 19.7	.3095	11 14.5	1.75
	5	.231	.1995	.1018	16.05	22 20.1	.3093	11 11.0	1.88
	6	.242	.1961	.1011	16.12	22 20.5	.3090	11 7.5	2.01
	7	.253	.1927	.1004	16.19	22 20.8	.3087	11 3.9	2.14
	8	.265	.1893	.0997	16.26	22 21.2	.3084	11 0.4	2.27
	9	.276	.1859	.0989	16.32	22 21.6	.3081	10 56.8	2.40
	10	+2.287	−0.1825	+0.0981	16.39	22 21.9	1.3078	10 53.3	+2.53
	11	.298	.1791	.0972	16.46	22 22.3	.3074	10 49.7	2.66
	12	.309	.1757	.0962	16.53	22 22.6	.3071	10 46.2	2.79
	13	.320	.1723	.0952	16.60	22 22.9	.3067	10 42.6	2.91
	14	.331	.1689	.0942	16.67	22 23.2	.3063	10 39.0	3.04
	15	.342	.1655	.0931	16.73	22 23.5	.3058	10 35.4	3.16
	16	.353	.1621	.0921	16.80	22 23.8	.3054	10 31.9	3.29
	17	.363	.1588	.0910	16.87	22 24.1	.3050	10 28.3	3.41
	18	.374	.1554	.0899	16.94	22 24.4	.3045	10 24.7	3.54
	19	.385	.1521	.0887	17.00	22 24.7	.3041	10 21.0	3.66

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juli	20	+2.395	−0.1487	+0.0875	17.07	22h24m9	1.3036	10h17m4	+3.78
	21	.406	.1454	.0863	17.14	22 25.1	.3031	10 13.8	3.90
	22	.416	.1421	.0850	17.20	22 25.4	.3026	10 10.1	4.02
	23	.427	.1388	.0837	17.27	22 25.6	.3021	10 6.5	4.14
	24	.437	.1355	.0824	17.33	22 25.8	.3015	10 2.8	4.25
	25	.447	.1323	.0810	17.40	22 26.1	.3010	9 59.1	4.37
	26	.457	.1290	.0796	17.46	22 26.3	.3004	9 55.5	4.48
	27	.467	.1258	.0782	17.53	22 26.5	.2999	9 51.8	4.59
	28	.477	.1226	.0768	17.59	22 26.7	.2993	9 48.1	4.70
	29	.487	.1194	.0754	17.66	22 26.8	.2988	9 44.4	4.81
	30	+2.496	−0.1162	+0.0740	17.72	22 27.0	1.2982	9 40.7	+4.92
	31	.506	.1131	.0726	17.78	22 27.2	.2976	9 36.9	5.03
August	1	.516	.1100	.0711	17.85	22 27.4	.2970	9 33.2	5.14
	2	.525	.1069	.0696	17.91	22 27.5	.2964	9 29.4	5.24
	3	.535	.1038	.0681	17.97	22 27.7	.2958	9 25.7	5.35
	4	.544	.1008	.0665	18.03	22 27.8	.2951	9 21.9	5.45
	5	.553	.0978	.0650	18.09	22 28.0	.2945	9 18.1	5.55
	6	.563	.0948	.0635	18.15	22 28.1	.2939	9 14.3	5.65
	7	.572	.0918	.0620	18.21	22 28.3	.2933	9 10.5	5.75
	8	.581	.0888	.0605	18.27	22 28.4	.2927	9 6.7	5.84
	9	+2.590	−0.0858	+0.0589	18.33	22 28.5	1.2921	9 2.8	+5.94
	10	.598	.0829	.0574	18.39	22 28.7	.2914	8 59.0	6.03
	11	.607	.0800	.0559	18.45	22 28.8	.2908	8 55.1	6.12
	12	.616	.0772	.0544	18.50	22 28.9	.2902	8 51.2	6.21
	13	.624	.0744	.0528	18.56	22 29.0	.2895	8 47.4	6.30
	14	.633	.0716	.0513	18.62	22 29.2	.2889	8 43.5	6.38
	15	.641	.0688	.0498	18.67	22 29.3	.2883	8 39.5	6.47
	16	.650	.0661	.0483	18.73	22 29.4	.2877	8 35.6	6.55
	17	.658	.0634	.0468	18.78	22 29.5	.2870	8 31.7	6.63
	18	.666	.0607	.0454	18.83	22 29.6	.2864	8 27.7	6.71
	19	+2.674	−0.0580	+0.0439	18.89	22 29.7	1.2858	8 23.7	+6.78
	20	.682	.0554	.0425	18.94	22 29.8	.2852	8 19.8	6.86
	21	.690	.0528	.0411	18.99	22 30.0	.2847	8 15.8	6.93
	22	.698	.0502	.0397	19.05	22 30.1	.2841	8 11.8	7.00
	23	.706	.0476	.0383	19.10	22 30.2	.2835	8 7.8	7.07
	24	.713	.0451	.0370	19.15	22 30.3	.2830	8 3.7	7.14
	25	.721	.0426	.0356	19.20	22 30.4	.2824	7 59.7	7.21
	26	.728	.0402	.0343	19.24	22 30.5	.2818	7 55.6	7.27
	27	.736	.0378	.0330	19.29	22 30.7	.2813	7 51.6	7.33
	28	.743	.0354	.0318	19.34	22 30.8	.2808	7 47.5	7.39
	29	+2.751	−0.0330	+0.0306	19.39	22 30.9	1.2803	7 43.4	+7.45
	30	.758	.0306	.0295	19.44	22 31.0	.2798	7 39.3	7.50
	31	.765	.0283	.0284	19.48	22 31.1	.2793	7 35.2	7.55
Septbr.	1	.772	.0260	.0273	19.53	22 31.3	.2789	7 31.1	7.60
	2	.779	.0237	.0263	19.58	22 31.4	.2784	7 27.0	7.65
	3	.786	.0215	.0253	19.62	22 31.5	.2780	7 22.8	7.70
	4	.793	.0193	.0243	19.66	22 31.7	.2776	7 18.7	7.74
	5	.800	.0171	.0234	19.71	22 31.8	.2772	7 14.5	7.78
	6	.807	.0150	.0225	19.75	22 32.0	.2768	7 10.4	7.82
	7	.814	.0129	.0217	19.79	22 32.1	.2765	7 6.2	7.86

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Septbr.	8	+2.821	−0.0108	+0.0209	19.″84	$22^h 32^m.3$	1.2761	$7^h 2^m.0$	+7.″89
	9	.828	.0087	.0201	19.88	22 32.4	.2758	6 57.8	7.93
	10	.834	.0066	.0194	19.92	22 32.6	.2755	6 53.6	7.96
	11	.841	.0046	.0187	19.96	22 32.7	.2752	6 49.4	7.99
	12	.848	.0025	.0181	20.00	22 32.9	.2749	6 45.2	8.01
	13	.854	−0.0005	.0175	20.04	22 33.1	.2747	6 40.9	8.04
	14	.861	+0.0015	.0171	20.08	22 33.3	.2745	6 36.7	8.06
	15	.867	.0034	.0167	20.12	22 33.5	.2743	6 32.5	8.08
	16	.874	.0054	.0163	20.16	22 33.7	.2742	6 28.2	8.10
	17	.880	.0073	.0160	20.20	22 33.9	.2740	6 24.0	8.11
	18	+2.887	+0.0092	+0.0157	20.24	22 34.1	1.2739	6 19.7	+8.12
	19	.893	.0111	.0154	20.27	22 34.3	.2738	6 15.5	8.13
	20	.900	.0130	.0152	20.31	22 34.5	.2737	6 11.2	8.14
	21	.906	.0149	.0151	20.35	22 34.7	.2737	6 6.9	8.14
	22	.913	.0168	.0150	20.39	22 34.9	.2737	6 2.7	8.15
	23	.919	.0186	.0150	20.43	22 35.1	.2736	5 58.4	8.15
	24	.926	.0205	.0151	20.46	22 35.4	.2737	5 54.1	8.15
	25	.932	.0223	.0152	20.50	22 35.6	.2737	5 49.8	8.14
	26	.939	.0242	.0153	20.54	22 35.9	.2738	5 45.5	8.14
	27	.945	.0260	.0155	20.57	22 36.1	.2739	5 41.2	8.13
	28	+2.952	+0.0278	+0.0158	20.61	22 36.4	1.2740	5 37.0	+8.11
	29	.958	.0296	.0161	20.65	22 36.6	.2741	5 32.7	8.10
	30	.964	.0315	.0165	20.68	22 36.9	.2743	5 28.4	8.08
Oktbr.	1	.971	.0333	.0169	20.72	22 37.2	.2745	5 24.1	8.06
	2	.977	.0351	.0174	20.76	22 37.5	.2747	5 19.9	8.04
	3	.984	.0369	.0180	20.79	22 37.8	.2749	5 15.6	8.02
	4	.991	.0387	.0186	20.83	22 38.1	.2752	5 11.3	7.99
	5	2.997	.0405	.0192	20.86	22 38.4	.2755	5 7.1	7.96
	6	3.004	.0423	.0199	20.90	22 38.7	.2758	5 2.8	7.93
	7	.011	.0441	.0207	20.94	22 39.0	.2761	4 58.5	7.90
	8	+3.018	+0.0459	+0.0215	20.97	22 39.3	1.2764	4 54.3	+7.86
	9	.025	.0478	.0224	21.01	22 39.7	.2768	4 50.0	7.83
	10	.031	.0496	.0233	21.05	22 40.0	.2772	4 45.8	7.79
	11	.038	.0515	.0242	21.08	22 40.3	.2776	4 41.5	7.75
	12	.045	.0533	.0252	21.12	22 40.7	.2780	4 37.3	7.70
	13	.053	.0552	.0262	21.16	22 41.0	.2784	4 33.0	7.65
	14	.060	.0570	.0273	21.19	22 41.4	.2789	4 28.8	7.60
	15	.067	.0589	.0284	21.23	22 41.8	.2793	4 24.6	7.55
	16	.074	.0608	.0296	21.27	22 42.1	.2798	4 20.4	7.50
	17	.081	.0627	.0309	21.31	22 42.5	.2804	4 16.2	7.44
	18	+3.089	+0.0646	+0.0321	21.35	22 42.9	1.2809	4 12.0	+7.38
	19	.096	.0666	.0334	21.39	22 43.2	.2814	4 7.8	7.32
	20	.104	.0686	.0347	21.43	22 43.6	.2820	4 3.6	7.26
	21	.111	.0706	.0360	21.47	22 44.0	.2825	3 59.5	7.19
	22	.119	.0726	.0373	21.51	22 44.4	.2831	3 55.3	7.12
	23	.127	.0747	.0387	21.55	22 44.8	.2837	3 51.1	7.05
	24	.135	.0767	.0401	21.59	22 45.2	.2843	3 47.0	6.98
	25	.143	.0788	.0415	21.63	22 45.6	.2849	3 42.8	6.91
	26	.151	.0809	.0430	21.67	22 46.0	.2855	3 38.7	6.83
	27	.159	.0830	.0445	21.72	22 46.5	.2861	3 34.6	6.75

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	28	+3^s.167	+0.0852	+0.0460	21^s.76	22^{h}46^m.9	1.2867	3^{h}30^m.5	+6^s.67
	29	.176	.0874	.0476	21.80	22 47.3	.2874	3 26.4	6.59
	30	.184	.0896	.0491	21.85	22 47.7	.2880	3 22.3	6.50
	31	.192	.0919	.0507	21.89	22 48.1	.2886	3 18.2	6.42
Novbr.	1	.201	.0942	.0522	21.94	22 48.6	.2893	3 14.1	6.33
	2	.210	.0965	.0538	21.99	22 49.0	.2900	3 10.1	6.24
	3	.218	.0988	.0554	22.03	22 49.4	.2906	3 6.0	6.15
	4	.227	.1012	.0570	22.08	22 49.9	.2913	3 2.0	6.05
	5	.236	.1036	.0587	22.13	22 50.3	.2919	2 58.0	5.96
	6	.245	.1061	.0603	22.18	22 50.7	.2926	2 53.9	5.86
	7	+3.255	+0.1086	+0.0619	22.23	22 51.1	1.2932	2 49.9	+5.76
	8	.264	.1111	.0635	22.28	22 51.6	.2939	2 45.9	5.66
	9	.273	.1136	.0651	22.33	22 52.0	.2945	2 41.9	5.55
	10	.283	.1162	.0667	22.38	22 52.4	.2952	2 37.9	5.45
	11	.292	.1188	.0683	22.43	22 52.9	.2958	2 34.0	5.34
	12	.302	.1214	.0698	22.49	22 53.3	.2965	2 30.0	5.23
	13	.311	.1241	.0713	22.54	22 53.7	.2971	2 26.1	5.12
	14	.321	.1268	.0728	22.59	22 54.1	.2977	2 22.2	5.01
	15	.331	.1295	.0743	22.65	22 54.6	.2983	2 18.2	4.89
	16	.341	.1323	.0758	22.70	22 55.0	.2989	2 14.3	4.78
	17	+3.351	+0.1351	+0.0773	22.76	22 55.4	1.2995	2 10.4	+4.66
	18	.361	.1380	.0788	22.82	22 55.8	.3001	2 6.5	4.54
	19	.372	.1409	.0803	22.88	22 56.2	.3007	2 2.6	4.42
	20	.382	.1438	.0817	22.93	22 56.6	.3013	1 58.7	4.30
	21	.393	.1468	.0831	22.99	22 57.1	.3018	1 54.8	4.18
	22	.403	.1498	.0845	23.06	22 57.5	.3024	1 51.0	4.05
	23	.414	.1528	.0859	23.12	22 57.9	.3029	1 47.1	3.93
	24	.425	.1559	.0872	23.18	22 58.3	.3035	1 43.3	3.80
	25	.435	.1590	.0885	23.24	22 58.7	.3040	1 39.4	3.67
	26	.446	.1622	.0897	23.30	22 59.1	.3045	1 35.6	3.54
	27	+3.457	+0.1654	+0.0909	23.37	22 59.4	1.3050	1 31.8	+3.41
	28	.468	.1686	.0921	23.43	22 59.8	.3054	1 27.9	3.28
	29	.479	.1718	.0933	23.50	23 0.2	.3059	1 24.1	3.15
	30	.491	.1751	.0944	23.56	23 0.6	.3063	1 20.3	3.02
Dezbr.	1	.502	.1784	.0955	23.63	23 0.9	.3068	1 16.5	2.88
	2	.513	.1817	.0965	23.69	23 1.3	.3072	1 12.7	2.75
	3	.525	.1850	.0975	23.76	23 1.6	.3076	1 8.9	2.61
	4	.536	.1884	.0984	23.83	23 2.0	.3079	1 5.1	2.47
	5	.548	.1918	.0993	23.90	23 2.3	.3083	1 1.3	2.34
	6	.559	.1952	.1001	23.97	23 2.6	.3086	0 57.6	2.20
	7	+3.571	+0.1987	+0.1009	24.04	23 3.0	1.3089	0 53.8	+2.06
	8	.583	.2022	.1016	24.11	23 3.3	.3092	0 50.0	1.91
	9	.594	.2057	.1023	24.18	23 3.6	.3095	0 46.3	1.77
	10	.606	.2093	.1029	24.25	23 3.9	.3097	0 42.5	1.63
	11	.618	.2129	.1035	24.32	23 4.2	.3099	0 38.8	1.49
	12	.630	.2165	.1040	24.39	23 4.5	.3101	0 35.0	1.35
	13	.641	.2201	.1045	24.46	23 4.8	.3103	0 31.3	1.21
	14	.653	.2237	.1049	24.54	23 5.1	.3105	0 27.5	1.06
	15	.665	.2273	.1053	24.61	23 5.3	.3107	0 23.8	0.92
	16	.677	.2310	.1057	24.68	23 5.6	.3108	0 20.1	0.78

1859

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Dezbr.	17	$+3^s.689$	+0.2346	+0.1060	24".76	$23^h\ 5^m.8$	1.3109	$0^h16^m.3$	+0".63
	18	.701	.2383	.1062	24.83	23 6.1	.3110	0 12.6	0.49
	19	.713	.2420	.1064	24.90	23 6.3	.3111	0 8.9	0.34
	20	.725	.2457	.1065	24.98	23 6.6	.3111	0 5.1	0.20
	21	.737	.2495	.1065	25.05	23 6.8	.3111	0 1.4	+0.05
	22	.749	.2532	.1065	25.13	23 7.0	.3111	23 57.6	−0.09
	23	.761	.2569	.1064	25.20	23 7.2	.3111	23 53.9	0.24
	24	.773	.2606	.1063	25.28	23 7.4	.3110	23 50.1	0.38
	25	.785	.2643	.1061	25.35	23 7.6	.3110	23 46.4	0.53
	26	.797	.2681	.1059	25.43	23 7.8	.3109	23 42.6	0.67
	27	+3.809	+0.2718	+0.1056	25.50	23 8.0	1.3108	23 38.9	−0.82
	28	.821	.2756	.1053	25.58	23 8.1	.3107	23 35.1	0.96
	29	.833	.2794	.1049	25.65	23 8.3	.3105	23 31.4	1.10
	30	.845	.2832	.1045	25.73	23 8.5	.3103	23 27.6	1.24
	31	.857	.2870	.1040	25.81	23 8.6	.3101	23 23.9	1.39

1860

Januar	1	$+0^s.797$	−0.6142	+0.1034	7".73	$20^h48^m.5$	1.3099	$23^h20^m.2$	−1".53
	2	.809	.6116	.1028	7.79	20 50.1	.3097	23 16.4	1.67
	3	.821	.6089	.1021	7.84	20 51.7	.3094	23 12.6	1.81
	4	.832	.6062	.1014	7.90	20 53.3	.3091	23 8.8	1.95
	5	.844	.6034	.1007	7.95	20 54.8	.3088	23 5.1	2.10
	6	.856	.6007	.0999	8.01	20 56.3	.3085	23 1.3	2.24
	7	.867	.5979	.0990	8.06	20 57.7	.3082	22 57.5	2.37
	8	.879	.5951	.0981	8.12	20 59.1	.3078	22 53.7	2.51
	9	.890	.5923	.0972	8.17	21 0.5	.3074	22 49.9	2.65
	10	.901	.5895	.0962	8.23	21 1.8	.3071	22 46.1	2.79
	11	+0.913	−0.5866	+0.0952	8.29	21 3.1	1.3067	22 42.3	−2.92
	12	.924	.5837	.0941	8.35	21 4.4	.3062	22 38.4	3.06
	13	.935	.5808	.0930	8.41	21 5.6	.3058	22 34.6	3.19
	14	.946	.5779	.0918	8.46	21 6.8	.3053	22 30.8	3.32
	15	.957	.5750	.0906	8.52	21 8.0	.3048	22 27.0	3.46
	16	.968	.5721	.0894	8.58	21 9.1	.3043	22 23.1	3.59
	17	.979	.5691	.0881	8.64	21 10.2	.3038	22 19.2	3.72
	18	0.990	.5662	.0868	8.70	21 11.2	.3033	22 15.4	3.84
	19	1.001	.5633	.0854	8.76	21 12.2	.3028	22 11.5	3.97
	20	.011	.5603	.0841	8.81	21 13.2	.3023	22 7.6	4.10
	21	+1.022	−0.5574	+0.0827	8.87	21 14.2	1.3017	22 3.7	−4.22
	22	.032	.5544	.0813	8.93	21 15.1	.3011	21 59.8	4.35
	23	.043	.5515	.0798	8.99	21 16.0	.3005	21 55.9	4.47
	24	.053	.5485	.0783	9.05	21 16.9	.2999	21 52.0	4.59
	25	.063	.5456	.0768	9.11	21 17.8	.2993	21 48.1	4.71
	26	.073	.5427	.0754	9.17	21 18.6	.2987	21 44.1	4.83
	27	.083	.5398	.0739	9.23	21 19.4	.2981	21 40.2	4.94
	28	.093	.5369	.0724	9.29	21 20.2	.2975	21 36.2	5.05
	29	.103	.5341	.0708	9.34	21 21.0	.2969	21 32.2	5.17
	30	.112	.5312	.0692	9.40	21 21.7	.2962	21 28.2	5.28

1860

12^h M. Z. Berlin	f	x	y	g	G	log h	H	i
Januar 31	$+1^s.122$	−0.5284	+0.0676	9″.46	$21^h22^m.4$	1.2955	$21^h24^m.2$	−5″.39
Februar 1	.132	.5256	.0659	9.51	21 23.1	.2949	21 20.2	5.49
2	.141	.5228	.0643	9.57	21 23.8	.2942	21 16.2	5.60
3	.150	.5200	.0626	9.62	21 24.5	.2936	21 12.2	5.70
4	.159	.5173	.0610	9.68	21 25.1	.2929	21 8.2	5.80
5	.168	.5146	.0594	9.73	21 25.8	.2923	21 4.1	5.90
6	.177	.5119	.0578	9.79	21 26.4	.2916	21 0.0	6.00
7	.186	.5092	.0562	9.84	21 27.0	.2909	20 56.0	6.10
8	.195	.5066	.0546	9.89	21 27.5	.2903	20 51.9	6.19
9	.203	.5040	.0530	9.95	21 28.1	.2896	20 47.8	6.29
10	+1.212	−0.5014	+0.0514	10.00	21 28.7	1.2889	20 43.7	−6.38
11	.221	.4988	.0498	10.05	21 29.2	.2883	20 39.6	6.47
12	.229	.4963	.0483	10.10	21 29.7	.2877	20 35.5	6.55
13	.238	.4938	.0468	10.15	21 30.3	.2870	20 31.3	6.64
14	.246	.4913	.0453	10.20	21 30.8	.2864	20 27.2	6.72
15	.254	.4888	.0437	10.25	21 31.3	.2858	20 23.0	6.80
16	.262	.4864	.0422	10.30	21 31.8	.2851	20 18.8	6.88
17	.270	.4840	.0407	10.35	21 32.3	.2845	20 14.7	6.95
18	.277	.4816	.0393	10.39	21 32.8	.2839	20 10.5	7.03
19	.285	.4792	.0379	10.44	21 33.3	.2833	20 6.3	7.10
20	+1.393	−0.4769	+0.0365	10.49	21 33.7	1.2828	20 2.1	−7.17
21	.300	.4746	.0351	10.53	21 34.2	.2822	19 57.9	7.23
22	.308	.4724	.0338	10.58	21 34.7	.2816	19 53.6	7.30
23	.316	.4702	.0325	10.62	21 35.1	.2810	19 49.4	7.36
24	.323	.4680	.0312	10.67	21 35.6	.2805	19 45.2	7.42
25	.330	.4658	.0299	10.71	21 36.1	.2800	19 40.9	7.48
26	.337	.4637	.0287	10.75	21 36.5	.2795	19 36.6	7.54
27	.345	.4616	.0276	10.80	21 37.0	.2790	19 32.4	7.59
28	.352	.4595	.0265	10.84	21 37.4	.2785	19 28.1	7.64
29	.359	.4575	.0255	10.88	21 37.9	.2781	19 23.8	7.69
März 1	+1.366	−0.4555	+0.0245	10.92	21 38.3	1.2777	19 19.5	−7.74
2	.373	.4535	.0236	10.96	21 38.8	.2773	19 15.2	7.78
3	.379	.4516	.0227	11.00	21 39.3	.2769	19 11.0	7.82
4	.386	.4497	.0218	11.03	21 39.7	.2765	19 6.7	7.86
5	.393	.4478	.0210	11.07	21 40.2	.2762	19 2.3	7.89
6	.399	.4459	.0202	11.11	21 40.7	.2758	18 58.0	7.93
7	.406	.4441	.0194	11.15	21 41.1	.2755	18 53.7	7.96
8	.413	.4423	.0187	11.18	21 41.6	.2752	18 49.4	7.99
9	.419	.4405	.0181	11.22	21 42.1	.2750	18 45.1	8.01
10	.426	.4387	.0175	11.25	21 42.6	.2747	18 40.8	8.04
11	+1.432	−0.4370	+0.0170	11.29	21 43.1	1.2745	18 36.4	−8.06
12	.439	.4353	.0166	11.32	21 43.6	.2743	18 32.1	8.08
13	.445	.4336	.0162	11.36	21 44.1	.2741	18 27.8	8.10
14	.452	.4319	.0159	11.39	21 44.6	.2740	18 23.4	8.11
15	.458	.4302	.0156	11.42	21 45.1	.2739	18 19.1	8.12
16	.464	.4286	.0154	11.46	21 45.6	.2738	18 14.7	8.13
17	.471	.4270	.0152	11.49	21 46.2	.2737	18 10.4	8.14
18	.477	.4254	.0151	11.52	21 46.7	.2737	18 6.1	8.14
19	.484	.4239	.0150	11.55	21 47.3	.2736	18 1.8	8.15
20	.490	.4223	.0150	11.58	21 47.8	.2736	17 57.5	8.15

1860

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
März	21	+1.496	−0.4208	+0.0151	11.61	21h48m.4	1.2737	17h53m.1	−8.14
	22	.503	.4192	.0153	11.64	21 49.0	.2737	17 48.8	8.14
	23	.509	.4177	.0155	11.68	21 49.5	.2738	17 44.5	8.13
	24	.515	.4162	.0157	11.71	21 50.1	.2739	17 40.2	8.12
	25	.522	.4147	.0160	11.74	21 50.7	.2740	17 35.8	8.11
	26	.528	.4132	.0163	11.77	21 51.3	.2742	17 31.5	8.09
	27	.535	.4117	.0167	11.79	21 51.9	.2744	17 27.2	8.08
	28	.541	.4102	.0171	11.82	21 52.6	.2746	17 22.9	8.06
	29	.547	.4088	.0176	11.85	21 53.2	.2748	17 18.7	8.04
	30	.554	.4073	.0181	11.88	21 53.8	.2750	17 14.4	8.01
	31	+1.560	−0.4059	+0.0187	11.91	21 54.5	1.2752	17 10.2	−7.98
April	1	.567	.4045	.0194	11.94	21 55.1	.2755	17 5.9	7.96
	2	.574	.4030	.0201	11.97	21 55.8	.2758	17 1.6	7.92
	3	.580	.4015	.0209	12.00	21 56.5	.2761	16 57.4	7.89
	4	.587	.4001	.0217	12.03	21 57.2	.2765	16 53.1	7.86
	5	.593	.3986	.0226	12.06	21 57.9	.2769	16 48.9	7.82
	6	.600	.3971	.0235	12.09	21 58.6	.2773	16 44.7	7.78
	7	.607	.3956	.0245	12.12	21 59.3	.2777	16 40.5	7.73
	8	.614	.3941	.0255	12.15	22 0.0	.2781	16 36.3	7.69
	9	.621	.3926	.0265	12.18	22 0.7	.2785	16 32.1	7.64
	10	+1.628	−0.3911	+0.0276	12.21	22 1.5	1.2790	16 28.0	−7.59
	11	.635	.3896	.0287	12.24	22 2.2	.2795	16 23.8	7.54
	12	.642	.3881	.0298	12.27	22 2.9	.2799	16 19.6	7.48
	13	.649	.3866	.0310	12.30	22 3.7	.2804	16 15.5	7.43
	14	.656	.3850	.0322	12.33	22 4.5	.2809	16 11.4	7.37
	15	.664	.3834	.0334	12.36	22 5.2	.2815	16 7.2	7.31
	16	.671	.3818	.0347	12.39	22 6.0	.2820	16 3.1	7.25
	17	.678	.3802	.0360	12.43	22 6.8	.2825	15 59.0	7.19
	18	.686	.3786	.0373	12.46	22 7.6	.2831	15 55.0	7.12
	19	.694	.3769	.0387	12.49	22 8.4	.2836	15 50.9	7.05
	20	+1.701	−0.3752	+0.0401	12.53	22 9.2	1.2842	15 46.9	−6.98
	21	.709	.3735	.0415	12.56	22 10.0	.2848	15 42.8	6.91
	22	.717	.3718	.0429	12.60	22 10.8	.2854	15 38.8	6.83
	23	.725	.3700	.0443	12.63	22 11.6	.2860	15 34.8	6.76
	24	.733	.3682	.0457	12.67	22 12.4	.2867	15 30.8	6.68
	25	.741	.3664	.0472	12.70	22 13.3	.2873	15 26.8	6.60
	26	.749	.3646	.0487	12.74	22 14.1	.2879	15 22.8	6.52
	27	.757	.3628	.0503	12.78	22 14.9	.2885	15 18.8	6.43
	28	.766	.3609	.0519	12.82	22 15.7	.2892	15 14.9	6.35
	29	.774	.3590	.0535	12.85	22 16.5	.2898	15 11.0	6.26
	30	+1.783	−0.3570	+0.0550	12.89	22 17.4	1.2904	15 7.0	−6.17
Mai	1	.791	.3550	.0566	12.93	22 18.2	.2911	15 3.1	6.08
	2	.800	.3530	.0581	12.97	22 19.0	.2917	14 59.3	5.99
	3	.808	.3510	.0597	13.01	22 19.8	.2923	14 55.4	5.89
	4	.817	.3489	.0612	13.06	22 20.7	.2930	14 51.5	5.80
	5	.826	.3468	.0628	13.10	22 21.5	.2936	14 47.7	5.70
	6	.835	.3447	.0643	13.14	22 22.3	.2942	14 43.8	5.60
	7	.844	.3425	.0658	13.18	22 23.2	.2948	14 40.0	5.50
	8	.853	.3403	.0673	13.23	22 24.0	.2955	14 36.2	5.40
	9	.863	.3381	.0688	13.27	22 24.8	.2961	14 32.4	5.29

1860

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Mai	10	$+1^s.872$	−0.3358	+0.0703	13″.32	$22^h25^m.6$	1.2967	$14^h28^m.6$	−5″.19
	11	.882	.3335	.0718	13.36	22 26.5	.2973	14 24.8	5.08
	12	.891	.3312	.0732	13.41	22 27.3	.2979	14 21.0	4.97
	13	.901	.3288	.0747	13.46	22 28.1	.2985	14 17.3	4.86
	14	.910	.3263	.0761	13.51	22 28.9	.2990	14 13.5	4.75
	15	.920	.3238	.0776	13.56	22 29.7	.2996	14 9.8	4.64
	16	.930	.3213	.0790	13.61	22 30.5	.3002	14 6.1	4.53
	17	.940	.3188	.0804	13.66	22 31.2	.3007	14 2.4	4.42
	18	.949	.3162	.0818	13.71	22 32.0	.3013	13 58.7	4.30
	19	.959	.3136	.0831	13.76	22 32.8	.3018	13 55.0	4.19
	20	+1.970	−0.3110	+0.0844	13.82	22 33.5	1.3023	13 51.3	−4.07
	21	.980	.3083	.0857	13.87	22 34.3	.3029	13 47.6	3.94
	22	1.990	.3056	.0870	13.92	22 35.0	.3034	13 44.0	3.82
	23	2.001	.3029	.0882	13.98	22 35.7	.3039	13 40.3	3.70
	24	.011	.3001	.0894	14.03	22 36.5	.3043	13 36.7	3.58
	25	.022	.2973	.0906	14.09	22 37.2	.3048	13 33.1	3.46
	26	.032	.2944	.0917	14.15	22 37.9	.3052	13 29.5	3.34
	27	.043	.2915	.0928	14.21	22 38.6	.3057	13 25.9	3.21
	28	.053	.2886	.0938	14.26	22 39.3	.3061	13 22.3	3.09
	29	.064	.2857	.0948	14.32	22 40.0	.3065	13 18.7	2.96
	30	+2.075	−0.2827	+0.0958	14.38	22 40.6	1.3069	13 15.1	−2.83
	31	.086	.2797	.0968	14.44	22 41.3	.3073	13 11.5	2.70
Juni	1	.096	.2767	.0977	14.50	22 42.0	.3077	13 7.9	2.57
	2	.107	.2736	.0986	14.57	22 42.6	.3080	13 4.4	2.44
	3	.119	.2705	.0994	14.63	22 43.2	.3083	13 0.8	2.31
	4	.130	.2674	.1002	14.69	22 43.8	.3086	12 57.3	2.18
	5	.141	.2643	.1009	14.75	22 44.4	.3089	12 53.7	2.05
	6	.152	.2611	.1016	14.82	22 45.0	.3092	12 50.1	1.92
	7	.163	.2579	.1022	14.88	22 45.6	.3095	12 46.6	1.79
	8	.174	.2547	.1028	14.94	22 46.2	.3097	12 43.1	1.65
	9	+2.185	−0.2515	+0.1034	15.01	22 46.7	1.3099	12 39.5	−1.52
	10	.197	.2482	.1039	15.07	22 47.3	.3101	12 36.0	1.39
	11	.208	.2449	.1044	15.14	22 47.8	.3103	12 32.5	1.25
	12	.219	.2416	.1048	15.21	22 48.3	.3105	12 29.0	1.12
	13	.230	.2383	.1052	15.27	22 48.8	.3106	12 25.5	0.98
	14	.242	.2350	.1055	15.34	22 49.3	.3107	12 22.0	0.85
	15	.253	.2316	.1058	15.41	22 49.8	.3108	12 18.4	0.72
	16	.264	.2282	.1060	15.48	22 50.3	.3109	12 14.9	0.58
	17	.276	.2248	.1062	15.54	22 50.7	.3110	12 11.4	0.44
	18	.287	.2214	.1063	15.61	22 51.2	.3111	12 7.9	0.31
	19	+2.299	−0.2180	+0.1064	15.68	22 51.6	1.3111	12 4.4	−0.17
	20	.310	.2146	.1065	15.75	22 52.0	.3111	12 0.9	−0.04
	21	.322	.2110	.1065	15.82	22 52.4	.3111	11 57.5	+0.10
	22	.333	.2076	.1064	15.89	22 52.8	.3111	11 54.0	0.23
	23	.344	.2041	.1063	15.96	22 53.2	.3111	11 50.5	0.37
	24	.356	.2007	.1062	16.03	22 53.6	.3110	11 47.0	0.50
	25	.367	.1972	.1060	16.10	22 54.0	.3109	11 43.5	0.64
	26	.378	.1937	.1057	16.17	22 54.3	.3108	11 39.9	0.77
	27	.390	.1902	.1054	16.24	22 54.7	.3107	11 36.4	0.91
	28	.401	.1867	.1051	16.31	22 55.0	.3106	11 32.9	1.04

1860

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Juni	29	+2.412	−0.1832	+0.1047	16.38	$22^h55^m.3$	1.3104	$11^h29^m.4$	+1.18
	30	.424	.1796	.1043	16.45	22 55.6	.3102	11 25.9	1.31
Juli	1	.435	.1761	.1038	16.52	22 55.9	.3101	11 22.4	1.45
	2	.446	.1726	.1033	16.59	22 56.2	.3098	11 18.9	1.58
	3	.457	.1691	.1027	16.66	22 56.5	.3096	11 15.4	1.71
	4	.468	.1656	.1021	16.73	22 56.7	.3094	11 11.9	1.85
	5	.480	.1621	.1014	16.80	22 57.0	.3091	11 8.3	1.98
	6	.491	.1586	.1007	16.87	22 57.2	.3088	11 4.8	2.11
	7	.502	.1552	.0999	16.94	22 57.5	.3085	11 1.2	2.24
	8	.513	.1517	.0991	17.01	22 57.7	.3082	10 57.7	2.37
	9	+2.524	−0.1482	+0.0982	17.08	22 57.9	1.3079	10 54.1	+2.50
	10	.534	.1447	.0973	17.15	22 58.1	.3075	10 50.6	2.63
	11	.545	.1413	.0964	17.22	22 58.3	.3072	10 47.0	2.76
	12	.556	.1379	.0954	17.29	22 58.5	.3068	10 43.5	2.88
	13	.567	.1345	.0944	17.36	22 58.6	.3064	10 39.9	3.01
	14	.578	.1311	.0934	17.42	22 58.8	.3059	10 36.3	3.13
	15	.588	.1277	.0923	17.49	22 59.0	.3055	10 32.7	3.26
	16	.598	.1242	.0912	17.56	22 59.1	.3051	10 29.1	3.38
	17	.609	.1208	.0901	17.63	22 59.3	.3046	10 25.5	3.51
	18	.619	.1174	.0890	17.70	22 59.4	.3042	10 21.9	3.63
	19	+2.630	−0.1141	+0.0878	17.76	22 59.5	1.3037	10 18.3	+3.75
	20	.640	.1108	.0866	17.83	22 59.7	.3032	10 14.7	3.87
	21	.650	.1075	.0853	17.90	22 59.8	.3027	10 11.0	3.99
	22	.660	.1042	.0840	17.96	22 59.9	.3022	10 7.4	4.11
	23	.670	.1010	.0827	18.03	23 0.0	.3017	10 3.7	4.22
	24	.680	.0978	.0813	18.09	23 0.1	.3011	10 0.0	4.34
	25	.690	.0946	.0799	18.16	23 0.2	.3006	9 56.3	4.46
	26	.700	.0914	.0785	18.22	23 0.3	.3000	9 52.7	4.57
	27	.710	.0882	.0771	18.28	23 0.4	.2994	9 49.0	4.68
	28	.719	.0850	.0757	18.35	23 0.5	.2989	9 45.3	4.79
	29	+2.729	−0.0818	+0.0743	18.41	23 0.5	1.2983	9 41.6	+4.90
	30	.738	.0787	.0729	18.47	23 0.6	.2978	9 37.8	5.00
	31	.748	.0756	.0715	18.54	23 0.7	.2972	9 34.1	5.11
August	1	.757	.0725	.0700	18.60	23 0.7	.2965	9 30.4	5.22
	2	.766	.0695	.0685	18.66	23 0.8	.2959	9 26.6	5.32
	3	.775	.0665	.0669	18.72	23 0.8	.2953	9 22.8	5.43
	4	.784	.0635	.0654	18.78	23 0.9	.2947	9 19.0	5.53
	5	.793	.0605	.0639	18.84	23 0.9	.2941	9 15.2	5.63
	6	.802	.0576	.0624	18.90	23 1.0	.2935	9 11.4	5.72
	7	.811	.0547	.0608	18.96	23 1.0	.2928	9 7.6	5.82
	8	+2.820	−0.0518	+0.0593	19.01	23 1.1	1.2922	9 3.8	+5.91
	9	.828	.0489	.0577	19.07	23 1.1	.2916	8 59.9	6.01
	10	.837	.0461	.0562	19.13	23 1.2	.2909	8 56.0	6.10
	11	.845	.0433	.0547	19.18	23 1.2	.2903	8 52.2	6.19
	12	.854	.0405	.0532	19.24	23 1.2	.2897	8 48.3	6.28
	13	.862	.0377	.0517	19.30	23 1.3	.2891	8 44.4	6.36
	14	.870	.0350	.0502	19.35	23 1.3	.2884	8 40.5	6.45
	15	.879	.0323	.0487	19.40	23 1.3	.2878	8 36.6	6.53
	16	.887	.0296	.0472	19.46	23 1.4	.2872	8 32.6	6.61
	17	.894	.0270	.0457	19.51	23 1.4	.2866	8 28.7	6.69

1860

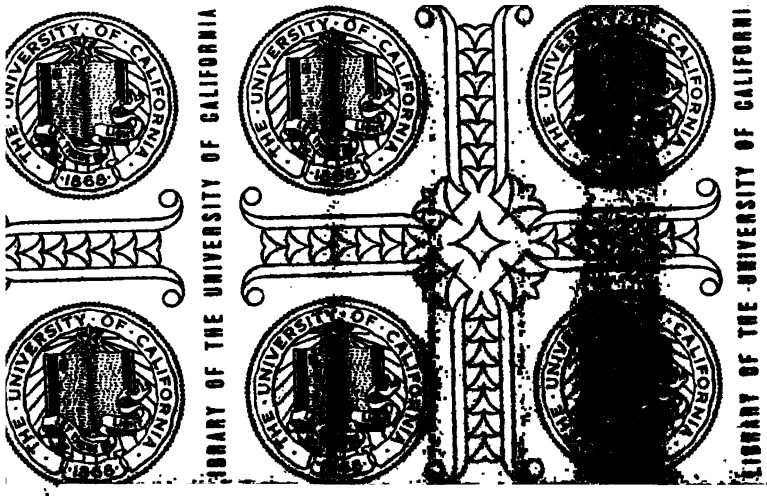
12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
August	18	+2.902	−0.0244	+0.0442	19.″56	$23^h 1^m.5$	1.2860	$8^h 24^m.7$	+6.″77
	19	.910	.0218	.0428	19.61	23 1.5	.2854	8 20.7	6.84
	20	.918	.0193	.0414	19.66	23 1.5	.2848	8 16.7	6.91
	21	.925	.0167	.0400	19.72	23 1.6	.2842	8 12.7	6.99
	22	.933	.0142	.0387	19.77	23 1.6	.2837	8 8.7	7.06
	23	.940	.0117	.0373	19.82	23 1.7	.2831	8 4.7	7.12
	24	.948	.0094	.0360	19.86	23 1.7	.2825	8 0.7	7.19
	25	.955	.0070	.0347	19.91	23 1.8	.2820	7 56.6	7.26
	26	.962	.0046	.0334	19.96	23 1.8	.2814	7 52.5	7.32
	27	.970	−0.0022	.0321	20.01	23 1.9	.2809	7 48.5	7.38
	28	+2.977	+0.0001	+0.0309	20.05	23 1.9	1.2804	7 44.4	+7.43
	29	.984	.0024	.0297	20.10	23 2.0	.2799	7 40.3	7.49
	30	.991	.0047	.0286	20.15	23 2.1	.2794	7 36.2	7.54
	31	2.998	.0070	.0275	20.19	23 2.1	.2790	7 32.1	7.59
Septbr.	1	3.005	.0092	.0265	20.24	23 2.2	.2785	7 28.0	7.64
	2	.011	.0114	.0255	20.28	23 2.3	.2781	7 23.8	7.69
	3	.018	.0136	.0245	20.32	23 2.4	.2777	7 19.7	7.73
	4	.025	.0157	.0236	20.36	23 2.5	.2773	7 15.5	7.78
	5	.031	.0178	.0227	20.41	23 2.5	.2769	7 11.4	7.81
	6	.038	.0199	.0219	20.45	23 2.6	.2766	7 7.2	7.85
	7	+3.045	+0.0220	+0.0211	20.49	23 2.7	1.2762	7 3.0	+7.89
	8	.051	.0241	.0203	20.53	23 2.8	.2759	6 58.8	7.92
	9	.058	.0261	.0196	20.58	23 2.9	.2756	6 54.6	7.95
	10	.064	.0281	.0189	20.62	23 3.0	.2753	6 50.4	7.98
	11	.070	.0301	.0183	20.66	23 3.2	.2750	6 46.2	8.01
	12	.077	.0321	.0177	20.70	23 3.3	.2748	6 42.0	8.03
	13	.083	.0341	.0172	20.74	23 3.4	.2746	6 37.7	8.06
	14	.089	.0361	.0167	20.78	23 3.6	.2744	6 33.5	8.07
	15	.096	.0380	.0163	20.82	23 3.7	.2742	6 29.3	8.09
	16	.102	.0400	.0160	20.85	23 3.9	.2741	6 25.0	8.11
	17	+3.108	+0.0419	+0.0157	20.89	23 4.0	1.2739	6 20.8	+8.12
	18	.115	.0438	.0155	20.93	23 4.2	.2738	6 16.5	8.13
	19	.121	.0457	.0153	20.97	23 4.3	.2738	6 12.2	8.14
	20	.127	.0476	.0152	21.01	23 4.5	.2737	6 8.0	8.14
	21	.133	.0495	.0151	21.04	23 4.7	.2737	6 3.7	8.15
	22	.139	.0514	.0151	21.08	23 4.8	.2737	5 59.4	8.15
	23	.146	.0533	.0151	21.12	23 5.0	.2737	5 55.2	8.15
	24	.152	.0551	.0152	21.16	23 5.2	.2737	5 50.9	8.14
	25	.158	.0570	.0153	21.19	23 5.4	.2738	5 46.6	8.14
	26	.164	.0589	.0155	21.23	23 5.6	.2738	5 42.3	8.13
	27	+3.171	+0.0608	+0.0157	21.27	23 5.8	1.2739	5 38.0	+8.12
	28	.177	.0626	.0160	21.31	23 6.1	.2741	5 33.7	8.10
	29	.183	.0645	.0164	21.34	23 6.3	.2742	5 29.4	8.09
	30	.189	.0664	.0168	21.38	23 6.5	.2744	5 25.2	8.07
Oktbr.	1	.195	.0683	.0173	21.42	23 6.7	.2746	5 20.9	8.05
	2	.202	.0701	.0179	21.46	23 7.0	.2749	5 16.6	8.02
	3	.208	.0720	.0185	21.49	23 7.2	.2751	5 12.4	8.00
	4	.215	.0738	.0192	21.53	23 7.5	.2754	5 8.1	7.97
	5	.221	.0757	.0199	21.57	23 7.8	.2757	5 3.8	7.94
	6	.228	.0775	.0206	21.61	23 8.0	.2760	4 59.6	7.90

1860

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Oktbr.	7	+3.234	+0.0794	+0.0214	21.64	$23^h\ 8^m.3$	1.2763	$4^h 55^m.3$	+7.87
	8	.241	.0813	.0222	21.68	23 8.6	.2767	4 51.1	7.83
	9	.247	.0832	.0231	21.72	23 8.9	.2771	4 46.8	7.80
	10	.254	.0851	.0240	21.76	23 9.2	.2775	4 42.6	7.76
	11	.261	.0871	.0250	21.80	23 9.5	.2779	4 38.3	7.71
	12	.268	.0890	.0260	21.84	23 9.8	.2783	4 34.1	7.66
	13	.275	.0910	.0271	21.88	23 10.1	.2787	4 29.8	7.61
	14	.281	.0929	.0282	21.92	23 10.4	.2792	4 25.6	7.56
	15	.288	.0949	.0293	21.96	23 10.7	.2797	4 21.4	7.51
	16	.296	.0969	.0305	22.00	23 11.0	.2802	4 17.2	7.45
	17	+3.303	+0.0990	+0.0317	22.04	23 11.3	1.2807	4 13.0	+7.40
	18	.310	.1011	.0330	22.08	23 11.7	.2813	4 8.8	7.34
	19	.317	.1032	.0343	22.12	23 12.0	.2818	4 4.6	7.27
	20	.324	.1053	.0356	22.16	23 12.3	.2824	4 0.5	7.21
	21	.332	.1074	.0370	22.21	23 12.7	.2829	3 56.3	7.14
	22	.339	.1095	.0384	22.25	23 13.0	.2835	3 52.2	7.07
	23	.347	.1117	.0398	22.29	23 13.4	.2841	3 48.0	7.00
	24	.355	.1139	.0412	22.34	23 13.7	.2847	3 43.8	6.92
	25	.363	.1161	.0427	22.38	23 14.1	.2853	3 39.7	6.85
	26	.370	.1184	.0442	22.43	23 14.5	.2859	3 35.6	6.77
	27	+3.378	+0.1207	+0.0457	22.47	23 14.8	1.2866	3 31.5	+6.69
	28	.386	.1230	.0472	22.52	23 15.2	.2872	3 27.4	6.61
	29	.395	.1254	.0488	22.57	23 15.5	.2878	3 23.3	6.53
	30	.403	.1278	.0503	22.61	23 15.9	.2885	3 19.2	6.44
	31	.411	.1302	.0519	22.66	23 16.3	.2891	3 15.1	6.35
Novbr.	1	.419	.1327	.0534	22.71	23 16.6	.2898	3 11.1	6.26
	2	.428	.1352	.0550	22.76	23 17.0	.2904	3 7.0	6.17
	3	.436	.1377	.0566	22.81	23 17.4	.2911	3 3.0	6.08
	4	.445	.1402	.0582	22.86	23 17.7	.2918	2 58.9	5.98
	5	.454	.1427	.0599	22.91	23 18.1	.2924	2 54.9	5.88
	6	+3.463	+0.1453	+0.0615	22.96	23 18.5	1.2931	2 50.9	+5.78
	7	.472	.1479	.0631	23.02	23 18.9	.2937	2 46.9	5.68
	8	.481	.1506	.0647	23.07	23 19.2	.2944	2 42.9	5.58
	9	.490	.1533	.0663	23.13	23 19.6	.2950	2 38.9	5.47
	10	.499	.1560	.0679	23.18	23 20.0	.2957	2 34.9	5.36
	11	.509	.1588	.0695	23.24	23 20.3	.2963	2 31.0	5.26
	12	.518	.1616	.0710	23.29	23 20.7	.2969	2 27.0	5.15
	13	.528	.1644	.0725	23.35	23 21.0	.2975	2 23.1	5.03
	14	.537	.1673	.0740	23.41	23 21.4	.2982	2 19.2	4.92
	15	.547	.1702	.0755	23.46	23 21.8	.2988	2 15.2	4.80
	16	+3.557	+0.1731	+0.0770	23.52	23 22.1	1.2994	2 11.3	+4.69
	17	.567	.1761	.0785	23.58	23 22.5	.3000	2 7.4	4.57
	18	.577	.1791	.0799	23.64	23 22.8	.3005	2 3.5	4.45
	19	.587	.1822	.0813	23.71	23 23.1	.3011	1 59.6	4.33
	20	.597	.1853	.0827	23.77	23 23.5	.3017	1 55.8	4.21
	21	.608	.1884	.0841	23.83	23 23.8	.3023	1 51.9	4.08
	22	.618	.1915	.0855	23.89	23 24.2	.3028	1 48.1	3.96
	23	.628	.1947	.0869	23.96	23 24.5	.3033	1 44.2	3.83
	24	.639	.1979	.0882	24.02	23 24.8	.3039	1 40.4	3.70
	25	.650	.2012	.0895	24.09	23 25.1	.3044	1 36.5	3.57

1860

12^h M. Z. Berlin		f	x	y	g	G	log h	H	i
Novbr.	26	+3.660	+0.2045	+0.0907	24.″15	$23^h25^m.4$	1.3049	$1^h32^m.7$	+3.″45
	27	.671	.2078	.0919	24.22	23 25.7	.3053	1 28.9	3.31
	28	.682	.2111	.0930	24.28	23 26.0	.3058	1 25.1	3.18
	29	.693	.2145	.0941	24.35	23 26.3	.3062	1 21.2	3.05
	30	.704	.2179	.0952	24.42	23 26.6	.3067	1 17.4	2.91
Dezbr.	1	.715	.2213	.0962	24.49	23 26.9	.3071	1 13.6	2.78
	2	.726	.2247	.0972	24.56	23 27.2	.3075	1 9.8	2.64
	3	.737	.2282	.0981	24.63	23 27.5	.3078	1 6.0	2.51
	4	.748	.2317	.0990	24.70	23 27.8	.3082	1 2.3	2.37
	5	.760	.2352	.0998	24.77	23 28.0	.3085	0 58.5	2.23
	6	+3.771	+0.2387	+0.1006	24.84	23 28.3	1.3088	0 54.7	+2.09
	7	.783	.2423	.1014	24.91	23 28.5	.3091	0 51.0	1.95
	8	.794	.2459	.1021	24.98	23 28.8	.3094	0 47.2	1.81
	9	.806	.2495	.1028	25.05	23 29.0	.3097	0 43.4	1.67
	10	.817	.2531	.1034	25.13	23 29.2	.3099	0 39.7	1.52
	11	.829	.2567	.1039	25.20	23 29.4	.3101	0 35.9	1.38
	12	.840	.2604	.1044	25.27	23 29.7	.3103	0 32.2	1.24
	13	.852	.2640	.1048	25.34	23 29.9	.3105	0 28.4	1.10
	14	.863	.2677	.1052	25.42	23 30.1	.3106	0 24.7	0.96
	15	.875	.2714	.1056	25.49	23 30.3	.3108	0 21.0	0.81
	16	+3.887	+0.2751	+0.1059	25.57	23 30.5	1.3109	0 17.2	+0.67
	17	.898	.2788	.1061	25.64	23 30.6	.3110	0 13.5	0.52
	18	.910	.2825	.1063	25.72	23 30.8	.3111	0 9.8	0.38
	19	.922	.2862	.1064	25.79	23 31.0	.3111	0 6.0	0.23
	20	.934	.2900	.1064	25.87	23 31.1	.3111	0 2.3	+0.09
	21	.945	.2937	.1064	25.94	23 31.3	.3111	23 58.6	−0.06
	22	.957	.2975	.1064	26.02	23 31.4	.3111	23 54.8	0.20
	23	.969	.3012	.1063	26.09	23 31.6	.3111	23 51.1	0.35
	24	.981	.3049	.1062	26.17	23 31.7	.3110	23 47.3	0.49
	25	.992	.3086	.1060	26.24	23 31.8	.3109	23 43.6	0.64
	26	+4.004	+0.3124	+0.1057	26.32	23 32.0	1.3108	23 39.8	−0.78
	27	.016	.3161	.1054	26.39	23 32.1	.3107	23 36.1	0.93
	28	.028	.3199	.1050	26.47	23 32.2	.3105	23 32.3	1.07
	29	.039	.3236	.1046	26.54	23 32.3	.3104	23 28.6	1.21
	30	.051	.3274	.1042	26.62	23 32.4	.3102	23 24.8	1.35
	31	.062	.3312	.1037	26.69	23 32.5	.3100	23 21.1	1.49



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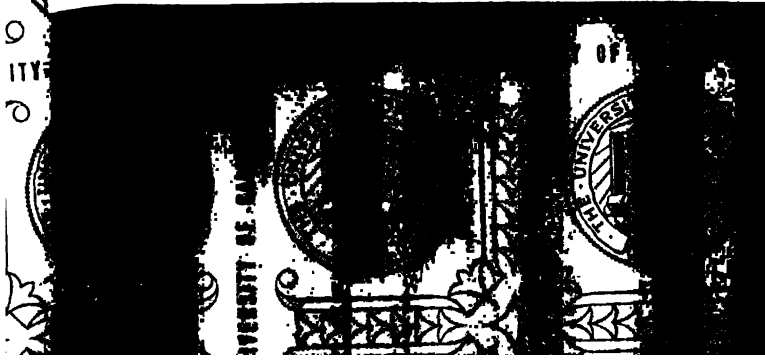

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